

# Wedron Silica Company

## *Permit to Install Application*

December 2011

Prepared For:



Prepared By:



**GZA GeoEnvironmental, Inc.**

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## **1.0 INTRODUCTION**

Fairmount Minerals, Ltd. (FML) owns and operates the Wedron Silica Company (Wedron) located at 3450 East 2056<sup>th</sup> Road, Wedron, LaSalle County, Illinois. The Wedron facility has been in operation for over 100 years producing high purity, round grain silica sand. Wedron consists of a sand mining site and a sand processing plant.

The Wedron facility is currently subject to Operating Permit No. 73031358 issued by IEPA most recently on July 16, 2007. Wedron is also currently subject to Construction Permit (CP) No. 06080002 for Rotary Sand Dryer #2 and related equipment, CP No. 09070046 which addresses the sand cooling process, CP No. 10050019 for changes to the finished product load-out area, and CP No. 10120010 for new sand processing equipment and associated dust collector, which was issued on March 8, 2011.

FML also owns and operates Technisand, Inc., a sand coating facility which is located adjacent to the Wedron Silica Company. As a result, the facilities are considered contiguous with respect to the Title V Program. Due to potential emissions that exceed the Title V major source threshold, the facilities are subject to the Clean Air Act Permitting Program (CAAPP).

The CAAPP application for the Wedron Complex was received by IEPA on August 24, 2009 and determined to be administratively complete on September 2, 2009. The CAAPP permit, once issued, will replace the existing Operating Permit and Construction Permits.

At this time, the Wedron facility is proposing to make changes to the existing plant including the construction of a new sand processing line with associated shipping (truck and rail load out) equipment. The proposed process additions at Wedron require the acquisition of a Construction Permit (CP) from the IEPA pursuant to Section 201.142 of the Illinois Administrative Code (Title 35). The application provided herein addresses the requirements to obtain a CP from the Illinois Environmental Protection Agency - Bureau of Air (IEPA-BOA). This Technical Support Document serves as supplemental information to Form 199-CAAPP for a "Construction Permit Application for a Proposed Project at a CAAPP Source."

Appendix A presents Form 199-CAAPP in addition to other forms required by the IEPA-BOA. Figure 1 illustrates the proposed project location in relation to the Wedron Site.

## **2.0 PROCESS DESCRIPTION**

### **2.1 Existing Processes**

The existing process at the Wedron facility begins with the mining and handling of wet sand. Particulate matter emissions from wet sand processing equipment have historically been considered negligible. After the mining of the wet sand, the facility employs rotary driers to remove the moisture from the sand. After cooling, the sand is further processed through various screening operations, is moved throughout the facility using conveyors and bucket elevators, and is stored in various silos prior to being loaded to trucks and rail cars. For many emission units, potential emissions of particulate matter are reduced by venting the exhaust from the process equipment to baghouse dust collectors and/or wet scrubbers.

The facility as a whole is currently capable of processing a maximum of 300 tons per hour (TPH), and 2.628 million tons of sand per year (TPY).

### **2.2 Proposed Changes to the Facility**

As indicated in Section 1.0, FML will be installing a new sand processing line with associated shipping (truck and rail load out) equipment at the Wedron complex. The line will consist of a natural gas fired rotary dryer, scalping screen, several Megatex and Apex screeners, and various belt conveyors, bucket elevators, and silos. Emissions of particulate matter from the rotary dryer, scalping screen, two conveyors and two elevators will be controlled by a baghouse dust collector (DC 3300). Particulate emissions from the remaining conveyors, screens, elevators and load-out operations will be controlled with a second baghouse dust collector (DC 6300).

In order to link the new processing line to the existing load-out stations and the Technisand Wedron facility, FML is proposing to install additional, new sand processing equipment. Two new silos, along with two bucket elevators and five new conveyors, will be installed to modify the existing “Wedron 2.5” processing line. Potential emissions from all of the new equipment proposed for the “Wedron 2.5” processing line with the exception of one conveyor (BC6400) will be vented to a new baghouse dust collector DC6400. Conveyor BC6400 will be vented to the existing baghouse dust collector BH5000.



A summary of the individual pieces of process equipment associated with the processing of dry sand that will be installed are provided in the following table:

Operators Identification	Emission Unit Description	Control Device ID
DC3300	Dust Collector	na
RD3300	9' x 46' Rotary Dryer	DC3300
BC3300	Belt Conveyor from Rotary Dryer to Scalping Screen	DC3300
EL3300	Bucket Elevator to Screen Tower Raw Storage Silo	DC3300
SH3300	Raw Storage Silo #1 w/ gate actuator	DC3300
BC3310	Belt Conveyor for Scalping Screen to Bucket Elevator	DC3300
EL3310	Bucket Elevator to Scalping Screen	DC3300
VS3300	Megatex Scalping Screen	DC3300
DC6300	Dust Collector	na
BC5300	Belt Conveyor from Raw Storage Silo's to Screen Tower Feed Elevator	DC6300
EL5300	Bucket Elevator to Screen Tower (Feed by Raw Storage Silo #1)	DC6300
SH5300	Surge Hopper	DC6300
VS5310	Megatex #1	DC6300
VS5320	Megatex #2	DC6300
VS5330	Megatex #3	DC6300
VS5340	Megatex #4	DC6300
VS5350	Apex Screen #1	DC6300
VS5360	Apex Screen #2	DC6300
VS5370	Megatex #5	DC6300
VS5380	Megatex #6	DC6300
VS5390	Apex Screen #3	DC6300
VS5400	Apex Screen #4	DC6300
VS5410	Apex Screen #5	DC6300
VS5420	Apex Screen #6	DC6300
BC5310	20/40 Belt Conveyor	DC6300
BC5320	30/50 Belt Conveyor	DC6300
BC5330	100 Mesh Belt Conveyor	DC6300
BC5340	40/70 Belt Conveyor	DC6300
BC5390	Alternative 30-50 Conveyor	DC6300
BC5350	20/40 Belt Conveyor	DC6300
BC5360	30/50 Belt Conveyor	DC6300
BC5370	100 Mesh Belt Conveyor	DC6300
BC5380	40/70 Belt Conveyor	DC6300
EL5310	20/40 Finish Product Bucket Elevator	DC6300
EL5320	30/50 Finish Product Bucket Elevator	DC6300
EL5330	40/70 Finish Product Bucket Elevator	DC6300
EL5340	100 Mesh Finish Product Bucket Elevator	DC6300
EL5350	30-50 Rescreen Bucket Elevator	DC6300

Operators Identification	Emission Unit Description	Control Device ID
TA5300	20/40 Finish Product Silo w/ gate actuator	DC6300
TA5310	30/50 Finish Product Silo w/ gate actuator	DC6300
TA5320	30/50 Finish Product Silo w/ gate actuator	DC6300
TA5330	100 Mesh Finish Product Silo w/ gate actuator	DC6300
TA5340	40/70 Mesh Finish Product Silo w/ gate actuator	DC6300
BC6300	Belt Conveyor under Finish Product Silos	DC6300
EL6300	Bucket Elevator	DC6300
BC6310	Belt Conveyor to Pre Load out Silos	DC6300
TA6300	Finish Product Pre Load Out Silo #1	DC6300
TA6310	Finish Product Pre Load Out Silo #2	DC6300
TS6300	Rail Load Spout	DC6300
BC6320	Belt Conveyor to Bucket Elevator	DC6300
EL6310	Bucket Elevator	DC6300
BC6330	Belt Conveyor Load Out	DC6300
BC6340	Belt Conveyor	DC6300
TA6320	Truck Loading Silo #1	DC6300
TS6310	Truck Load Spout	DC6300
DC6400	Dust Collector	na
BC6410	Belt Conveyor #1 to TW	DC6400
BE6410	Bucket Elevator to TW	DC6400
TA6400	TW Silo #1	DC6400
TA6410	TW Silo #2	DC6400
BC6420	Belt Conveyor under TW Silos	DC6400
BE6420	Bucket Elevator	DC6400
BC6430	Belt Conveyor	DC6400
BC6440	Belt Conveyor to TW Feed	DC6400
BC6400	Belt Conveyor from Truck Load-out	BH5000*

\* Existing Baghouse Dust Collector

Several currently applicable permits are based upon facility wide sand processing limits of 300 TPH and 2.628 million TPY. In addition, Permit No. 10050019 contains a facility wide PM<sub>10</sub> emission limit of 175 TPY. As part of the proposed modifications and additions to the facility, Fairmount is requesting an increase to the facility wide sand processing rate to 600 TPH and 5.256 million TPY. Commensurate with the increase to the sand processing rate associated with this proposed permit modification, and to incorporate the modifications from Permit 10120010, Fairmount is requesting an increase to the facility wide PM<sub>10</sub> emission limit to 187 TPY. These limitations, along with existing and proposed emission control equipment, will allow for

operational flexibility within the sand processing facility, while maintaining continued compliance with applicable PM<sub>10</sub> regulations.

It should be noted that additional equipment will be added for the processing of wet sand as well. The handling of wet sand results in insignificant quantities of criteria pollutant emissions (e.g., PM); therefore, it is not included in the application.

### **3.0 EMISSIONS SUMMARY AND CALCULATIONS**

The sand handling equipment proposed for installation at the Wedron Facility will result in potential emissions of particulate matter (PM/PM<sub>10</sub>). The proposed rotary dryer which will combust natural gas, will result in potential emissions of carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), volatile organic compounds (VOCs), sulfur dioxide (SO<sub>2</sub>), and greenhouse gases (GHGs).

#### **3.1 PM Emissions**

As indicated in Section 2 of this document, the majority of new sand processing equipment will be vented to three (3) new dust collectors to reduce the emissions of PM<sub>10</sub> into the ambient air (DC3300, DC6300, and DC6400). Potential emissions of PM<sub>10</sub> from the processes were determined based upon the maximum capacity of each dust collector (scfm), and the maximum outlet loading that each unit is designed to achieve per the manufacturer (i.e., exit grain loading). The following is an example of the calculation for PM<sub>10</sub> PTE from one of the dust collectors:

DC3300 Design capacity: 40,000 scfm

DC3300 Grain loading: 0.002 gr/scf

$(40,000 \text{ scfm})(60 \text{ min/hr})(8,760 \text{ hr/yr})(0.002 \text{ gr/scf})(1 \text{ lb}/7,000 \text{ gr})(1 \text{ ton}/2,000 \text{ lb}) = 3.0 \text{ TPY}$

This methodology ensures that the maximum potential emissions are calculated, regardless of the throughput capacity of each individual piece of equipment in the process. The attached Table 1 presents detailed calculations of emissions from all proposed equipment.

As presented in the Table in Section 2.2, the proposed belt conveyor from truck load-out (BC6400) will be vented to an existing dust collector (BH5000). To remain consistent with the manner in which emissions are calculated for previous permits for units vented to BH500, potential emissions from this units are based upon its maximum sand production rate, appropriate USEPA published emission factors from the FIRE application website, and expected control efficiency:

BC6400 throughput: 400 TPH

Control Efficiency: 99%

$(400 \text{ TPH})(8,760 \text{ hr/yr})(0.0064 \text{ lb PM}_{10}/\text{ton})(1 \text{ ton}/2,000 \text{ lb})(1-0.99 \text{ C.E.}) = 0.112 \text{ TPY}$

### **3.2 Combustion Emissions**

The combustion of natural gas in the proposed rotary dryer will result in potential emissions of the following criteria air pollutants: NO<sub>x</sub>, CO, SO<sub>2</sub>, and VOCs. The proposed unit has a maximum heat input capacity rating of 100 million Btu per hour (MMBtu/hr). The PTE for pollutants from combustion of natural gas is estimated utilizing the maximum rated capacity of the dryer, maximum annual hours of operation (8,760 hours), and the appropriate emission factor from USEPA publication AP-42, Compilation of Air Pollutant Emission Factors, Volume I – Stationary Point and Area Sources (AP-42), 5th ed.

The combustion of natural gas also results in potential emissions of GHGs, primarily carbon dioxide (CO<sub>2</sub>), with small amounts of methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O). The PTE for each of these is also estimated utilizing the maximum rated capacity of the drier in MMBtu/hr, and maximum annual hours of operation (8,760 hours). The appropriate emission factors are obtained from Table C-1 of 40 CFR Part 98, Subpart C of the Mandatory Greenhouse Gas Reporting Rule. Mass-based emissions of each gas are then converted to CO<sub>2</sub>-equivalents (CO<sub>2</sub>e) using the Global Warming Potential (GWP) values presented in Table A-1 of 40 CFR Part 98, Subpart A.

Table 1 presents detailed emission calculations for criteria air pollutants and GHGs as CO<sub>2</sub>e.

## **4.0 REGULATORY ANALYSIS**

### **4.1 Federal New Source Review (40 CFR Part 52)**

The Wedron facility is located within an area that has attained the National Ambient Air Quality Standards (NAAQS) for all criteria pollutants. The facility is not a major stationary source under federal New Source Review - Prevention of Significant Deterioration (PSD) regulations because potential emissions of criteria pollutants do not exceed 250 tons per year. Accordingly, if a modification occurs at the facility, the modification itself must be considered major (i.e., result in an emissions increase greater than 250 TPY) in order to trigger a review under PSD.

As demonstrated in Table 1, the maximum potential emissions increase for the proposed project will not exceed the PSD major modification thresholds (i.e., 250 TPY of any criteria pollutant). Therefore, the project does not meet the definition of a major modification to an existing minor source and is not subject to review under federal NSR.

### **4.2 Federal New Source Performance Standards (40 CFR Part 60)**

40 CFR Part 60, Subpart OOO identifies standards of performance for Nonmetallic Mineral Processing Plants. A “Nonmetallic Mineral Processing Plant” is defined as “any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located...” The Wedron facility does not have any processes where crushing or grinding of sand is conducted, and therefore does not meet the definition of a Nonmetallic Mineral Processing Plant, and NSPS Subpart OOO does not apply.

40 CFR Part 60, Subpart UUU identifies standards of performance for Calciners and Dryers in Mineral Industries constructed, modified, or reconstructed after April 23, 1986. The Wedron facility is subject to 40 CFR Part 60, Subpart UUU because of the two dryers currently present at the facility commenced construction after the effective date of the rule; April 23, 1986. The proposed new rotary dryer (RD3300) will also be subject to the provisions of Subpart UUU.

40 CFR Part 60, Subpart Dc applies to Small Industrial-Commercial-Institutional Steam Generating Units constructed after June 9, 1989. The proposed dryer is considered a process heater, not a steam generating unit. Process heaters are not considered to be an affected source subject to the requirements of Subpart Dc.

#### **4.3 Federal Section 112(g) Applicability (40 CFR Part 63)**

Section 112(g) of the federal Clean Air Act (CAA) requires any newly constructed or reconstructed major sources of HAPs to meet maximum achievable control technology (MACT) standards. The Wedron complex is considered a major source of HAPs due to emissions of organic HAPs from the Technisand Wedron resin-coating operation. The equipment proposed for installation at the Wedron facility will not result in emissions of HAPs. Therefore, there are no applicable MACT requirements under Section 112(g) as there are no new or reconstructed sources of HAPs as part of the project.

#### **4.4 Federal Section 112(d) Applicability (40 CFR Part 63)**

There are no Categorical MACT standards under Section 112(d) which apply to the Wedron facility.

#### **4.5 State New Source Review**

Title 35: Subtitle B, Chapter I, Section 201.142 which states the following:

*“No person shall cause or allow the construction of any new emission source or any new air pollution control equipment, or cause or allow the modification of any existing emission source or air pollution control equipment, without first obtaining a construction permit from the Agency.”*

Based upon a comprehensive review of the state air pollution control regulations and air permit exemptions, it has been determined that a CP is required for certain changes under the proposed project pursuant to Title 35: Subtitle B, Chapter I, Section 201.142. Submittal of this application addresses the State of Illinois’ minor NSR program requirements.

The facility will also be required to obtain an operating permit for the proposed equipment. As previously indicated, IEPA is currently processing a CAAPP operating permit application submitted by the Wedron complex. The CAAPP permit, once issued, will replace the existing Operating Permit and Construction Permits applicable to the Wedron and Technisand Wedron facilities. Wedron will be prepared to submit an operating permit application or addendum to the CAAPP application as required by the IEPA-BOA.

#### **4.6 State Subpart K – Fugitive Particulate Emissions**

The air pollution control rules contain standards and limitations for particulate matter emissions in Part 212 Subpart K of the Illinois Administrative Code (Title 35). The standards applicable to the proposed project have been addressed below.

##### *Section 212.301 (Rule 301) - Fugitive Particulate Matter*

Rule 301 states that:

*“No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.”*

Wedron is currently subject to this requirement and any new sand processing equipment will also be subject to this requirement.

##### *Section 212.307 (Rule 307) – Materials Collected by Pollution Control Equipment*

Rule 307 states that:

*“All unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods.”*

As previously indicated, the proposed emission units will be controlled by baghouse dust collectors. Consequently, Wedron will continue to be required to unload and transfer all materials collected by the control devices in accordance with a method or equivalent method to those provided in Rule 307.

##### *Section 212.308 (Rule 308) – Spraying or Choke-Feeding Required*

Rule 308 states that:

*“Crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyors, bagging operations, storage bins and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-*



*feeding or be treated by an equivalent method in accordance with an operating program.”*

The proposed project will include the installation of screening operations, conveyor transfer points and bucket elevators. The equipment will be incorporated into the facility’s existing Fugitive Dust Plan. Accordingly, Wedron will continue to meet the requirement of Rule 308.

Section 212.309 (Rule 309) – Operating Program

Rule 309 states that:

*“a) The emission units described in Sections 212.304 through 212.308 and Section 212.316 of this Subpart shall be operated under the provisions of an operating program, consistent with the requirements set forth in Sections 212.310 and 212.312 of this Subpart, and prepared by the owner or operator and submitted to the Agency for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions.”*

Wedron plans to update its Fugitive Dust Plan (i.e., “operating program”) to accommodate the equipment installations contained in this application. The Fugitive Dust Plan will be updated in accordance with the minimum requirements listed in Rule 310 as well. An amended Plan will be submitted to the Agency for review pursuant to Rule 312.

**4.7 State Subpart L – Particulate Matter Emissions From Process Emission Units**

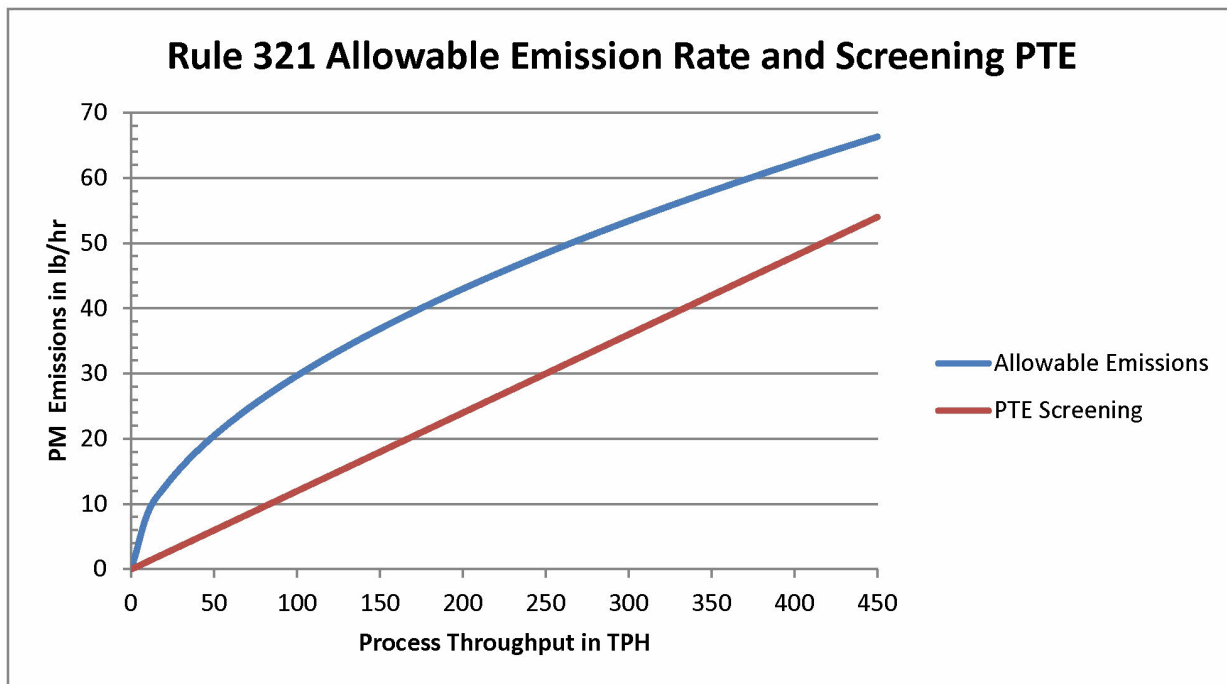
Section 212.321 (Rule 321) indicates that process emission units for which construction or modification commenced on or after April 14, 1972 shall not cause or allow the emission of PM into the atmosphere in any one hour period to exceed the allowable emission rate. The new processing line will be capable of handling 300 TPH, while some of the equipment associated with load-out will be able to process a maximum of 400 TPH of sand on a short-term basis. Rule 321 indicates that for processes with 450 TPH or less the following equation is used to determine the allowable PM emission rate:

$$E = 2.54 * P^{0.534}$$

P = Process weight rate

E = Allowable emission rate

Potential emissions from individual equipment may be calculated using emission factors published by the EPA. As with the equation from Rule 321, the emission factors estimate emissions based upon the process throughput in tons per hour. The equipment with the highest emission factor is the screens, which have potential emissions equal to 0.12 lb PM<sub>10</sub> per ton of sand processed, prior to controls. The graph below plots the allowable emissions as a function of throughput, and the maximum PTE from screening as a function of throughput, based upon the above equations.



An example calculation of the allowable emissions and uncontrolled potential emissions of an Apex Screen with 60 TPH capacity:

Allowable Emissions

$$E = 2.54 * P^{0.534}$$

$$E = 2.54 * 60^{0.534}$$

$$E = 22.61 \text{ lb/hr}$$

Potential Uncontrolled Emissions

$$E = 0.12 * P$$

$$E = 0.12 * 60$$

$$E = 7.2 \text{ lb/hr}$$

As the graph demonstrates, regardless of the throughput (up to 450 TPH), the potential uncontrolled emissions from any screening operation will be less than the allowable rate calculated by Rule 321. Other operations (e.g., conveyors, silos) with lower emission factors will also be in compliance with Rule 321 regardless of the throughput. Therefore, all the proposed equipment will comply with Rule 321.

## **5.0 CONCLUSION**

Fairmount Minerals, Ltd. is submitting this application as a formal request to obtain a Construction Permit from the Illinois Environmental Protection Agency for proposed additions to their sand processing plant. These proposed changes are supported by an appropriate demonstration indicating that the facility will continue to comply with the provisions of State and Federal Air Quality Regulations. The appropriate forms required by the IEPA-BOA (e.g., Form 199-CAAPP, etc.) are included in Appendix A.

## Tables

**TABLE 1  
WEDRON SILICA COMPANY  
EMISSIONS LIST AND POTENTIAL EMISSIONS**

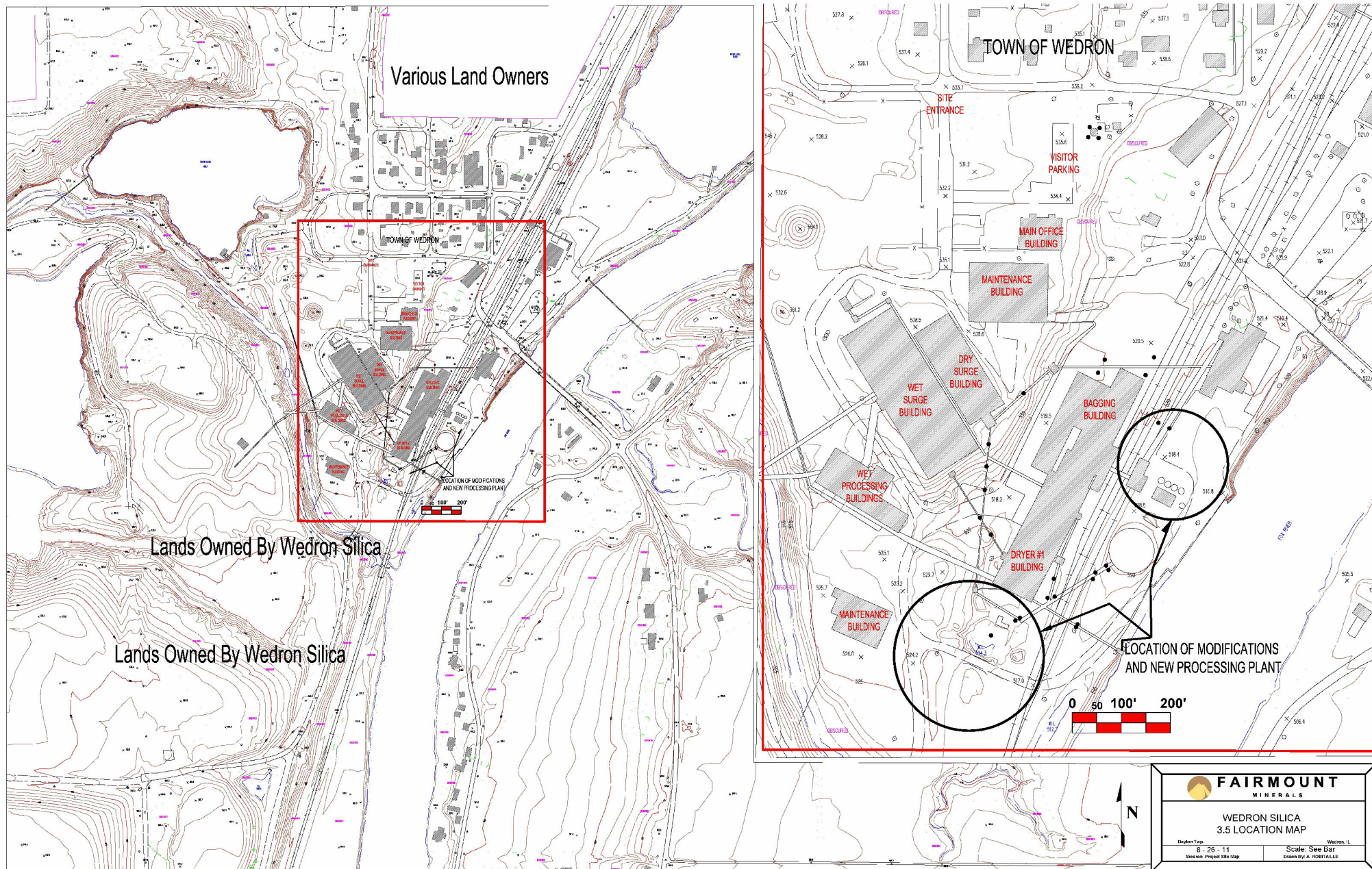
Operator's Identification	Emission Unit Description	SOC	Source Capacity/ Rating	Units for Capacity/ Rating	Potential Hours of Operation	EF	PM <sub>10</sub> EF Units	Potential (lb/hr)	Potential (tpy)	EF	NO <sub>x</sub> EF Units	Potential (lb/hr)	Potential (tpy)	EF	CO EF Units	Potential (lb/hr)	Potential (tpy)
Emissions from Sand Processing																	
New Equipment Vented to New DC3300 Baghouse																	
RD3300	9' x 46' Rotary Dryer	3-05-025-08	40,000	scfm	8,760	0.002	gr/dscf	0.69	3.00	-	-	-	-	-	-	-	-
BC3300	Belt Conveyor from Rotary Dryer to Scalping Screen	3-05-025-03								-	-	-	-	-	-		
EL3300	Bucket Elevator to Screen Tower Raw Storage Silo	3-05-025-03								-	-	-	-	-	-		
SH3300	Raw Storage Silo #1 w/ gate actuator	3-05-025-06								-	-	-	-	-	-		
BC3310	Belt Conveyor for Scalping Screen to Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
EL3310	Bucket Elevator to Scalping Screen	3-05-025-03								-	-	-	-	-	-		
VSS300	Megatex Scalping Screen	3-05-025-11								-	-	-	-	-	-		
New Equipment Vented to New DC6300 Baghouse																	
BC5300	Belt Conveyor from Raw Storage Silo's to Screen Tower Feed Elevator	3-05-025-03	35,000	scfm	8,760	0.002	gr/dscf	0.60	2.63	-	-	-	-	-	-	-	-
EL5300	Bucket Elevator to Screen Tower (Feed by Raw Storage Silo #1)	3-05-025-03								-	-	-	-	-	-		
SH5300	Surge Hopper	3-05-025-06								-	-	-	-	-	-		
VSS310	Megatex #1	3-05-025-11								-	-	-	-	-	-		
VSS320	Megatex #2	3-05-025-11								-	-	-	-	-	-		
VSS330	Megatex #3	3-05-025-11								-	-	-	-	-	-		
VSS340	Megatex #4	3-05-025-11								-	-	-	-	-	-		
VSS350	Apex Screen #1	3-05-025-11								-	-	-	-	-	-		
VSS360	Apex Screen #2	3-05-025-11								-	-	-	-	-	-		
VSS370	Megatex #5	3-05-025-11								-	-	-	-	-	-		
VSS380	Megatex #6	3-05-025-11								-	-	-	-	-	-		
VSS390	Apex Screen #3	3-05-025-11								-	-	-	-	-	-		
VSS400	Apex Screen #4	3-05-025-11								-	-	-	-	-	-		
VSS410	Apex Screen #5	3-05-025-11								-	-	-	-	-	-		
VSS420	Apex Screen #6	3-05-025-11								-	-	-	-	-	-		
BC5310	20'x40' Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5320	30'x50' Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5330	100' Mesh Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5340	40'x70' Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5360	Alternative 30'x50' Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5350	20'x40' Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5360	30'x50' Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5370	100' Mesh Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC5380	40'x70' Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
EL5310	20'x40' Finish Product Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
EL5320	30'x50' Finish Product Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
EL5330	40'x70' Finish Product Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
EL5340	100' Mesh Finish Product Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
EL5350	30'x50' Rescreen Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
TA5300	20'x40' Finish Product Silo w/ gate actuator	3-05-025-06								-	-	-	-	-	-		
TA5310	30'x50' Finish Product Silo w/ gate actuator	3-05-025-06								-	-	-	-	-	-		
TA5320	30'x50' Finish Product Silo w/ gate actuator	3-05-025-06								-	-	-	-	-	-		
TA5330	100' Mesh Finish Product Silo w/ gate actuator	3-05-025-06								-	-	-	-	-	-		
TA5340	40'x70' Mesh Finish Product Silo w/ gate actuator	3-05-025-06								-	-	-	-	-	-		
BC6300	Belt Conveyor under Finish Product Silos	3-05-025-06								-	-	-	-	-	-		
EL6300	Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
BC6310	Belt Conveyor to Pre Load out Silos	3-05-025-06								-	-	-	-	-	-		
TA6300	Finish Product Pre Load Out Silo #1	3-05-025-06								-	-	-	-	-	-		
TA6310	Finish Product Pre Load Out Silo #2	3-05-025-06								-	-	-	-	-	-		
TS6300	Rail Load Spout	3-05-025-06								-	-	-	-	-	-		
BC6320	Belt Conveyor to Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
EL6310	Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
BC6330	Belt Conveyor Load Out	3-05-025-03								-	-	-	-	-	-		
BC6340	Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
TA6320	Truck Loading Silo #1	3-05-025-06								-	-	-	-	-	-		
TS6310	Truck Load Spout	3-05-025-06								-	-	-	-	-	-		
New Equipment Vented to Existing BH5000 Baghouse																	
BC6400	Belt Conveyor from Truck Load-out	3-05-025-03	400	TPH	8,760	0.0064	lb/ton	0.0256	0.112	-	-	-	-	-	-	-	-
New Equipment Vented to New DC6400 Baghouse																	
BC6410	Belt Conveyor #1 to TW	3-05-025-03	10,000	scfm	8,760	0.002	gr/dscf	0.17	0.75	-	-	-	-	-	-	-	-
BE6410	Bucket Elevator to TW	3-05-025-03								-	-	-	-	-	-		
TA6400	TW Silo #1	3-05-025-06								-	-	-	-	-	-		
TA6410	TW Silo #2	3-05-025-06								-	-	-	-	-	-		
BC6420	Belt Conveyor under TW Silos	3-05-025-03								-	-	-	-	-	-		
BE6420	Bucket Elevator	3-05-025-03								-	-	-	-	-	-		
BC6430	Belt Conveyor	3-05-025-03								-	-	-	-	-	-		
BC6440	Belt Conveyor to TW Feed	3-05-025-03	-	-	-	-	-	-									
Emissions from Natural Gas Combustion																	
RD3300	9' x 46' Rotary Dryer		100	MMBtu/hr	8,760	PM <sub>10</sub> emission accounted for in DC3300 Baghouse				100	lb/mmscf	10.00	43.80	84	lb/mmscf	8.40	36.79
Total PTE								1.48	6.49			10.00	43.80			8.40	36.79

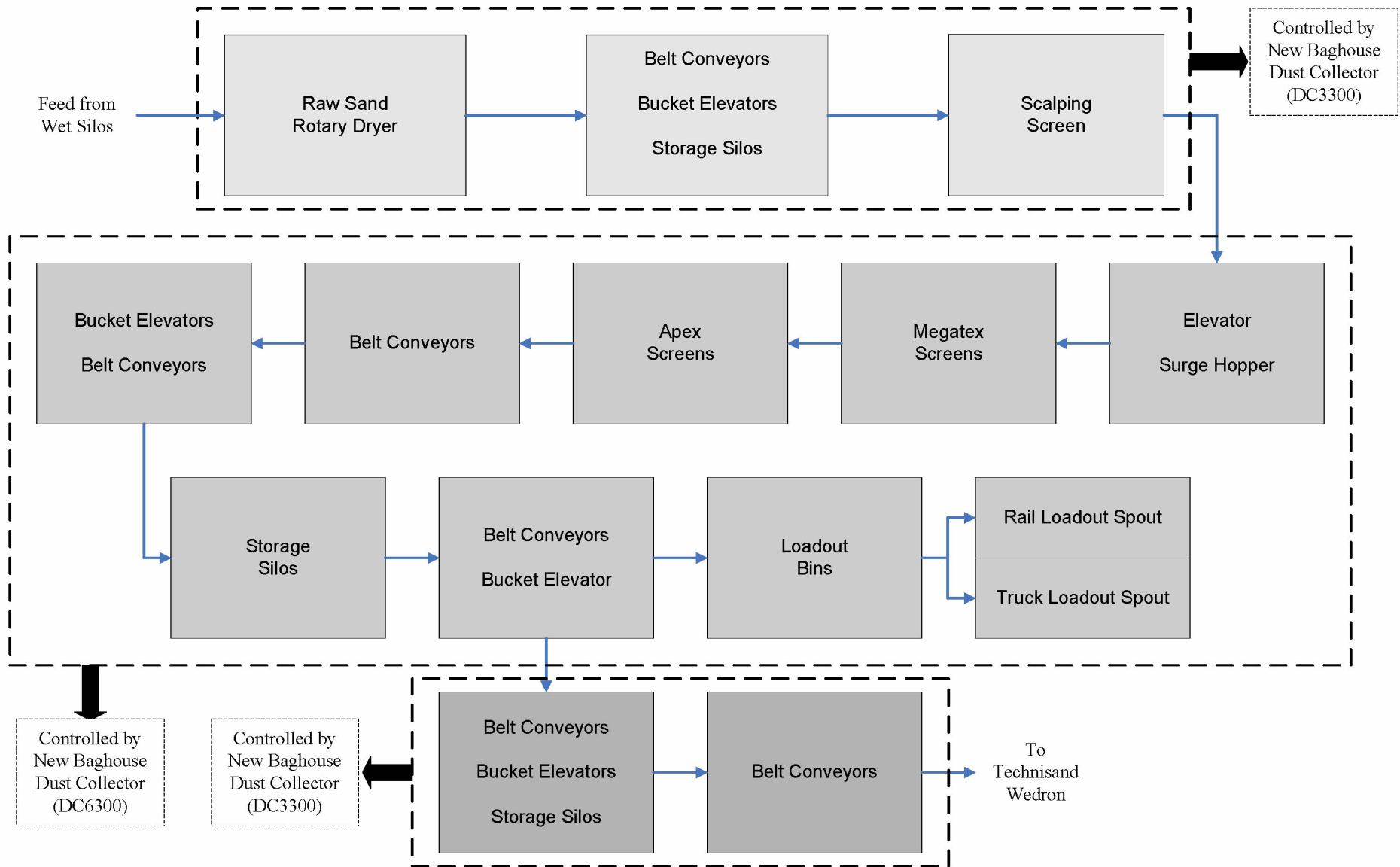
**TABLE 1  
WEDRON SILICA COMPANY  
EMISSIONS LIST AND POTENTIAL EMISSIONS**

Operator's Identification	Emission Unit Description	SOC	Source Capacity/ Rating	Units for Capacity/ Rating	Potential Hours of Operation	EF	VOCs				EF	SO <sub>2</sub>				CO <sub>2</sub>	GREENHOUSE GASES			CO <sub>2</sub> e		
							EF Units	Potential (lb/hr)	Potential (tpy)	EF Units		Potential (lb/hr)	Potential (tpy)	Emission Factor (kg / mmBtu)	CH <sub>4</sub>		N <sub>2</sub> O	Potential (lb/hr)	Potential (tpy)			
Emissions from Sand Processing																						
New Equipment Vented to New DC3300 Baghouse																						
ROC3300	8' x 48' Rotary Dryer	3-05-025-08	40,000	scfm	8,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BC3300	Belt Conveyor from Rotary Dryer to Scalping Screen	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL3300	Bucket Elevator to Screen Tower Raw Storage Silo	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SH3300	Raw Storage Silo #1 w/ gate actuator	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC3310	Belt Conveyor for Scalping Screen to Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL3310	Bucket Elevator to Scalping Screen	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS3300	Megatex Scalping Screen	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Equipment Vented to New DC3300 Baghouse																						
BC5300	Belt Conveyor from Raw Storage Silo's to Screen Tower Feed Elevator	3-05-025-03	35,000	scfm	8,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
EL5300	Bucket Elevator to Screen Tower (Feed by Raw Storage Silo #1)	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SH5300	Surge Hopper	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS310	Megatex #1	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS320	Megatex #2	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS330	Megatex #3	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS340	Megatex #4	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS350	Apex Screen #1	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS360	Apex Screen #2	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS370	Megatex #5	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS380	Megatex #6	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS390	Apex Screen #3	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS400	Apex Screen #4	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS410	Apex Screen #5	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSS420	Apex Screen #6	3-05-025-11				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5310	20'x40' Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5320	30'x50' Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5330	100 Mesh Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5340	40'x70' Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5360	Alternative 30-50 Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5350	20'x40' Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5360	30'x50' Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5370	100 Mesh Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC5380	40'x70' Belt Conveyor	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL5310	20'x40' Finish Product Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL5320	30'x50' Finish Product Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL5330	40'x70' Finish Product Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL5340	100 Mesh Finish Product Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL5350	30-50 Rescreen Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA5300	20'x40' Finish Product Silo w/ gate actuator	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA5310	30'x50' Finish Product Silo w/ gate actuator	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA5320	30'x50' Finish Product Silo w/ gate actuator	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA5330	100 Mesh Finish Product Silo w/ gate actuator	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA5340	40'x70' Mesh Finish Product Silo w/ gate actuator	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BO6300	Belt Conveyor under Finish Product Silos	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL6300	Bucket Elevator	3-05-025-03				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BO6310	Belt Conveyor to Pre Load out Silos	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA6300	Finish Product Pre Load Out Silo #1	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TA6310	Finish Product Pre Load Out Silo #2	3-05-025-06				-	-	-	-	-	-	-	-	-	-	-						

## Figures



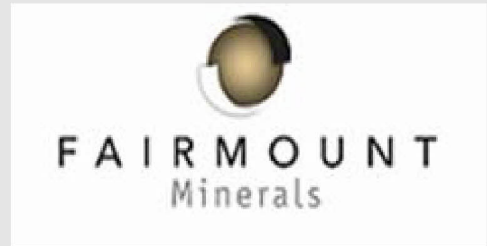




**Figure 2**  
**Process Flow Diagram**  
**Wedron Silica Company**  
**Modifications**

DATE ORIGINAL	12/8/11	SCALE	None
LATEST REVISION	FINAL	JOB NO.	07.0061759.00

REVISIONS		
NO.	DATE	DESCRIPTION
CHECKED		DRAWN
		TCK



## **Appendix A**

### **Construction Permit Application Forms**



Illinois Environmental Protection Agency  
Division Of Air Pollution Control -- Permit Section  
P.O. Box 19506  
Springfield, Illinois 62794-9506

<b>Construction Permit Application for a Proposed Project at a CAAPP Source</b>	For Illinois EPA use only
	ID No.:
	Appl. No.:
	Date Rec'd:
Chk No./Amt:	

This form is to be used to supply general information to obtain a construction permit for a proposed project involving a Clean Air Act Permit Program (CAAPP) source, including construction of a new CAAPP source. Detailed information about the project must also be included in a construction permit application, as addressed in the "General Instructions For Permit Applications," Form APC-201.

<b>Proposed Project</b>
1. Working Name of Proposed Project: Wedron 3.5
2. Is the project occurring at a source that already has a permit from the Bureau of Air (BOA)? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, provide BOA ID Number: <u>099804AAB</u>
3. Does this application request a revision to an existing construction permit issued by the BOA? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide Permit Number: _____
4. Brief Description of Proposed Project: Installation of sand processing equipment including a natural gas fired rotary dryer, screening machines, various conveyors and elevators, and associated dust collectors.  See the "Technical Support Document" for more detail.

<b>Source Information</b>		
1. Source name:* Wedron Silica Company		
2. Source street address:* 3450 East 2056th Road		
3. City: Wedron	4. County: LaSalle	5. Zip code:* 60557
ONLY COMPLETE THE FOLLOWING FOR A SOURCE WITHOUT AN ID NUMBER.		
6. Is the source located within city limits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, provide Township Name: Dayton		
7. Description of source and product(s) produced: Mining and processing of industrial sand.	8. Primary Classification Code of source: SIC: <u>1 4 4 6</u> or NAICS: _____	
9. Latitude (DD:MM:SS.SSSS): 41.43530	10. Longitude (DD:MM:SS.SSSS): -88.77263	

\* Is information different than previous information? ☐ Yes ☒ No  
If yes, then complete Form CAAPP 273 to apply for an Administrative Change to the CAAPP Permit for the source.

<b>Identification of Permit Applicant</b>	
1. Who is the applicant? <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Operator	2. All correspondence to: (check one) <input checked="" type="checkbox"/> Source <input type="checkbox"/> Owner <input type="checkbox"/> Operator
3. Applicant's FEIN: 34-1440302	4. Attention name and/or title for written correspondence: John Edney

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.



Owner Information*		
1. Name: Fairmount Minerals, Ltd.		
2. Address: 11833 Ravenna Road		
3. City: Chardon	4. State: OH	5. Zip code: 44024

\* Is this information different than previous information? ☐ Yes ☒ No  
 If yes, then complete Form CAAPP 273 to apply for an Administrative Change to the CAAPP Permit for the source.

Operator Information (if different from owner)*		
1. Name Wedron Silica Company		
2. Address: 3450 East 2056th Road		
3. City: Wedron	4. State: IL	5. Zip code: 60557

\* Is this information different than previous information? ☐ Yes ☒ No  
 If yes, then complete Form CAAPP 273 to apply for an Administrative Change to the CAAPP Permit for the source.

Technical Contacts for Application	
1. Preferred technical contact: (check one) <input type="checkbox"/> Applicant's contact <input checked="" type="checkbox"/> Consultant	
2. Applicant's technical contact person for application: Mr. John Edney	
3. Contact person's telephone number(s): 815-431-8643	4. Contact person's e-mail address: John.Edney@fmsand.com
5. Consultant for application: Mr. Thomas Klotz	
6. Consultant's telephone number(s): 734-779-2428	7. Consultant's e-mail address: Thomas.Klotz@GZA.com

Other Addresses for the Permit Applicant	
ONLY COMPLETE THE FOLLOWING FOR A SOURCE WITHOUT AN ID NUMBER.	
1. Address for billing Site Fees for the source: <input type="checkbox"/> Source <input type="checkbox"/> Other (provide below):	
2. Contact person for Site Fees:	3. Contact person's telephone number:
4. Address for Annual Emission Report for the source: <input type="checkbox"/> Source <input type="checkbox"/> Other (provide below):	
5. Contact person for Annual Emission Report:	6. Contact person's telephone number:

Review Of Contents of the Application	
NOTE: ANSWERING "NO" TO THESE ITEMS MAY RESULT IN THE APPLICATION BEING DEEMED INCOMPLETE	
1. Does the application include a narrative description of the proposed project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Does the application clearly identify the emission units and air pollution control equipment that are part of the project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Does the application include process flow diagram(s) for the project showing new and modified emission units and control equipment, along with associated existing equipment and their relationships?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Does the application include a general description of the source, a plot plan for the source and a site map for its location?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A* * Material previously provided
5. Does the application include relevant technical information for the proposed project as requested on CAAPP application forms (or otherwise contain all relevant technical information)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6. Does the application include relevant supporting data and information for the proposed project as provided on CAAPP forms?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7. Does the application identify and address all applicable emission standards for the proposed project, including: State emission standards (35 IAC Chapter I, Subtitle B); Federal New Source Performance Standards (40 CFR Part 60)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8. Does the application address whether the project would be a major project for Prevention of Significant Deterioration, 40 CFR 52.21?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9. Does the application address whether the project would be a major project for "Nonattainment New Source Review," 35 IAC Part 203?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10. Does the application address whether the proposed project would potentially be subject to federal regulations for Hazardous Air Pollutants (40 CFR Part 63) and address any emissions standards for hazardous air pollutants that would be applicable?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A* * Source not major <input type="checkbox"/> Project not major <input checked="" type="checkbox"/>
11. Does the application include a summary of annual emission data for different pollutants for the proposed project (tons/year), including: 1) The requested permitted emissions for individual new, modified and affected existing units*, 2) The past actual emissions and change in emissions for individual modified units* and affected existing units*, and 3) Total emissions consequences of the proposed project? (* Or groups of related units)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A * The project does not involve an increase in emissions from new or modified emission units.
12. Does the application include a summary of the current and requested potential emissions of the source (tons/year)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A* * Applicability of PSD, NA NSR or 40 CFR 63 to the project is not related to the source's emissions.
13. Does the application address the relationships and implications of the proposed project on the CAAPP Permit for the source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A* * CAAPP Permit not issued
14. If the application contains information that is considered a TRADE SECRET, has it been properly marked and claimed and all requirements to properly support the claim pursuant to 35 IAC Part 130 been met? Note: "Claimed" information will not be legally protected from disclosure to the public if it is not properly claimed or does not qualify as trade secret information.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A* * No information in the application is claimed to be a TRADE SECRET
15. Are the correct number of copies of the application provided? (See Instructions for Permit Applications, Form 201)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
16. Does the application include a completed "FEE DETERMINATION FOR CONSTRUCTION PERMIT APPLICATION," Form 197-FEE, a check in the amount indicated on this form, and any supporting material needed to explain how the fee was determined?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Signature Block

Authorized Signature:


I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete and that I am a responsible official for the source, as defined by Section 39.5(1) of the Environmental Protection Act.

BY:

  
AUTHORIZED SIGNATURE

  
TITLE OF SIGNATORY

  
TYPED OR PRINTED NAME OF SIGNATORY

  
DATE



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL – PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

<b>FEE DETERMINATION FOR CONSTRUCTION PERMIT APPLICATION</b>	<b>FOR AGENCY USE ONLY</b>	
	ID NUMBER:	
	PERMIT #:	
	COMPLETE <input type="checkbox"/> INCOMPLETE <input type="checkbox"/>	DATE COMPLETE:
	CHECK #:	ACCOUNT NAME:

THIS FORM IS TO BE USED BY ALL SOURCES TO SUPPLY FEE INFORMATION THAT MUST ACCOMPANY ALL CONSTRUCTION PERMIT APPLICATIONS. **THIS APPLICATION MUST INCLUDE PAYMENT IN FULL TO BE DEEMED COMPLETE.** MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS ABOVE. DO NOT SEND CASH. REFER TO INSTRUCTIONS (197-INST) FOR ASSISTANCE.

<b>SOURCE INFORMATION</b>	
1) SOURCE NAME: Wedron Silica Company	
2) PROJECT NAME: Wedron 3.5	3) SOURCE ID NO. (IF APPLICABLE): 099804AAB
4) CONTACT NAME: Mr. John Edney	5) CONTACT PHONE NUMBER: (815) 431-8643

<b>FEE DETERMINATION</b>		
6) FILL IN THE FOLLOWING THREE BOXES AS DETERMINED IN SECTIONS 1 THROUGH 4 BELOW:		
\$ 0	+	\$ 10,000 = \$ 10,000
SECTION 1 SUBTOTAL		GRAND TOTAL

<b>SECTION 1: STATUS OF SOURCE / PURPOSE OF SUBMITTAL</b>	
7) YOUR APPLICATION WILL FALL UNDER ONLY ONE OF THE FOLLOWING SIX CATEGORIES DESCRIBED BELOW. CHECK THE BOX THAT APPLIES, ENTER THE CORRESPONDING FEE IN THE BOX TO THE RIGHT AND COPY THIS FEE INTO THE SECTION 1 SUBTOTAL BOX ABOVE. PROCEED TO APPLICABLE SECTIONS. <b>FOR PURPOSES OF THIS FORM:</b> <ul style="list-style-type: none"><li><b>MAJOR SOURCE</b> IS A SOURCE THAT IS REQUIRED TO OBTAIN A CAAPP PERMIT.</li><li><b>SYNTHETIC MINOR SOURCE</b> IS A SOURCE THAT HAS TAKEN LIMITS ON POTENTIAL TO EMIT IN A PERMIT TO AVOID CAAPP PERMIT REQUIREMENTS (E.G., FESOP).</li><li><b>NON-MAJOR SOURCE</b> IS A SOURCE THAT IS NOT A MAJOR OR SYNTHETIC MINOR SOURCE.</li></ul>	
<input checked="" type="checkbox"/> <b>EXISTING SOURCE WITHOUT STATUS CHANGE OR WITH STATUS CHANGE FROM SYNTHETIC MINOR TO MAJOR SOURCE OR VICE VERSA.</b> ENTER \$0 AND PROCEED TO SECTION 2.	\$ 0 SECTION 1 SUBTOTAL
<input type="checkbox"/> <b>EXISTING NON-MAJOR SOURCE THAT WILL BECOME SYNTHETIC MINOR OR MAJOR SOURCE.</b> ENTER \$5,000 AND PROCEED TO SECTION 4.	
<input type="checkbox"/> <b>EXISTING MAJOR OR SYNTHETIC MINOR SOURCE THAT WILL BECOME NON-MAJOR SOURCE.</b> ENTER \$4,000 AND PROCEED TO SECTION 3.	
<input type="checkbox"/> <b>NEW MAJOR OR SYNTHETIC MINOR SOURCE.</b> ENTER \$5,000 AND PROCEED TO SECTION 4.	
<input type="checkbox"/> <b>NEW NON-MAJOR SOURCE.</b> ENTER \$500 AND PROCEED TO SECTION 3.	
<input type="checkbox"/> <b>AGENCY ERROR.</b> IF THIS IS A TIMELY REQUEST TO CORRECT AN ISSUED PERMIT THAT INVOLVES ONLY AN AGENCY ERROR AND IF THE REQUEST IS RECEIVED WITHIN THE DEADLINE FOR A PERMIT APPEAL TO THE POLLUTION CONTROL BOARD, THEN ENTER \$0. SKIP SECTIONS 2, 3 AND 4. PROCEED DIRECTLY TO SECTION 5.	

<b>SECTION 2: SPECIAL CASE FILING FEE</b>	
8) <b>FILING FEE.</b> IF THE APPLICATION ONLY ADDRESSES ONE OR MORE OF THE FOLLOWING, CHECK THE APPROPRIATE BOXES, ENTER \$500 IN THE SECOND BOX UNDER FEE DETERMINATION ABOVE, SKIP SECTIONS 3 AND 4 AND PROCEED DIRECTLY TO SECTION 5. OTHERWISE, PROCEED TO SECTION 3 OR 4, AS APPROPRIATE. <ul style="list-style-type: none"><li><input type="checkbox"/> ADDITION OR REPLACEMENT OF CONTROL DEVICES ON PERMITTED UNITS</li><li><input type="checkbox"/> PILOT PROJECTS/TRIAL BURNS BY A PERMITTED UNIT</li><li><input type="checkbox"/> APPLICATIONS ONLY INVOLVING INSIGNIFICANT ACTIVITIES UNDER 35 IAC 201.210 (MAJOR SOURCES ONLY)</li><li><input type="checkbox"/> LAND REMEDIATION PROJECTS</li><li><input type="checkbox"/> REVISIONS RELATED TO METHODOLOGY OR TIMING FOR EMISSION TESTING</li><li><input type="checkbox"/> MINOR ADMINISTRATIVE-TYPE CHANGE TO A PERMIT</li></ul>	

THIS AGENCY IS AUTHORIZED TO REQUIRE AND YOU MUST DISCLOSE THIS INFORMATION UNDER 415 ILCS 5/39. FAILURE TO DO SO COULD RESULT IN THE APPLICATION BEING DENIED AND PENALTIES UNDER 415 ILCS 5 ET SEQ. IT IS NOT NECESSARY TO USE THIS FORM IN PROVIDING THIS INFORMATION. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

**APPLICATION PAGE**

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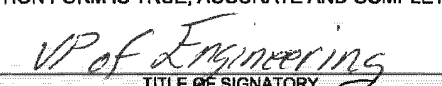

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SECTION 3: FEES FOR CURRENT OR PROJECTED NON-MAJOR SOURCES		
9) IF THIS APPLICATION CONSISTS OF A SINGLE NEW EMISSION UNIT <u>OR</u> NO MORE THAN TWO MODIFIED EMISSION UNITS, ENTER \$500.	9)	
10) IF THIS APPLICATION CONSISTS OF MORE THAN ONE NEW EMISSION UNIT <u>OR</u> MORE THAN TWO MODIFIED UNITS, ENTER \$1,000.	10)	
11) IF THIS APPLICATION CONSISTS OF A NEW SOURCE OR EMISSION UNIT SUBJECT TO SECTION 39.2 OF THE ACT (I.E., LOCAL SITING REVIEW); A COMMERCIAL INCINERATOR OR A MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR AN EMISSION UNIT DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER \$15,000.	11)	
12) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER \$10,000.	12)	
13) SECTION 3 SUBTOTAL (ADD LINES 9 THROUGH 12) TO BE ENTERED ON PAGE 1.	13)	

SECTION 4: FEES FOR CURRENT OR PROJECTED MAJOR OR SYNTHETIC MINOR SOURCES			
Application Contains Modified Emission Units Only	14) FOR THE FIRST MODIFIED EMISSION UNIT, ENTER \$2,000.	14)	
	15) NUMBER OF ADDITIONAL MODIFIED EMISSION UNITS = _____ X \$1,000.	15)	
	16) LINE 14 PLUS LINE 15, OR \$5,000, WHICHEVER IS LESS.	16)	
Application Contains New And/Or Modified Emission Units	17) FOR THE FIRST NEW EMISSION UNIT, ENTER \$4,000.	17)	4000
	18) NUMBER OF ADDITIONAL NEW AND/OR MODIFIED EMISSION UNITS = <u>62</u> X \$1,000.	18)	62000
	19) LINE 17 PLUS LINE 18, OR \$10,000, WHICHEVER IS LESS.	19)	10000
Application Contains Netting Exercise	20) NUMBER OF INDIVIDUAL POLLUTANTS THAT RELY ON A NETTING EXERCISE OR CONTEMPORANEOUS EMISSIONS DECREASE TO AVOID APPLICATION OF PSD OR NONATTAINMENT NSR = _____ X \$3,000.	20)	
Additional Supplemental Fees	21) IF THE NEW SOURCE OR EMISSION UNIT IS SUBJECT TO SECTION 39.2 OF THE ACT (I.E., SITING); A COMMERCIAL INCINERATOR OR OTHER MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR ONE OR MORE OTHER EMISSION UNITS DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER \$25,000.	21)	
	22) IF THE SOURCE IS A NEW MAJOR SOURCE SUBJECT TO PSD, ENTER \$12,000.	22)	
	23) IF THE PROJECT IS A MAJOR MODIFICATION SUBJECT TO PSD, ENTER \$6,000.	23)	
	24) IF THIS IS A NEW MAJOR SOURCE SUBJECT TO NONATTAINMENT (NAA) NSR, ENTER \$20,000.	24)	
	25) IF THIS IS A MAJOR MODIFICATION SUBJECT TO NAA NSR, ENTER \$12,000.	25)	
	26) IF APPLICATION INVOLVES A DETERMINATION OF CLEAN UNIT STATUS AND THEREFORE IS NOT SUBJECT TO BACT OR LAER, ENTER \$5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X \$5,000.	26)	
	27) IF APPLICATION INVOLVES A DETERMINATION OF MACT FOR A POLLUTANT AND THE PROJECT IS NOT SUBJECT TO BACT OR LAER FOR THE RELATED POLLUTANT UNDER PSD OR NSR (E.G., VOM FOR ORGANIC HAP), ENTER \$5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X \$5,000.	27)	
	28) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER \$10,000.	28)	
29) SECTION 4 SUBTOTAL (ADD LINES 16 AND LINES 19 THROUGH 28) TO BE ENTERED ON PAGE 1.		29)	10000

SECTION 5: CERTIFICATION	
NOTE: APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED INCOMPLETE.	
30) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE INFORMATION CONTAINED IN THIS FEE APPLICATION FORM IS TRUE, ACCURATE AND COMPLETE.	
BY: 	
SIGNATURE	TITLE OF SIGNATORY
	<u>12</u> / <u>7</u> / <u>11</u>
TYPED OR PRINTED NAME OF SIGNATORY	DATE

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation: \_\_\_\_\_

<b>PROCESS EMISSION UNIT DATA AND INFORMATION</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER: _____
	EMISSION POINT #: _____
	DATE: _____

<b>SOURCE INFORMATION</b>	
1) SOURCE NAME: Wedron Silica Company	
2) DATE FORM PREPARED: _____	3) SOURCE ID NO. (IF KNOWN): 099804AAB

<b>GENERAL INFORMATION</b>	
4) NAME OF EMISSION UNIT: Belt Conveyor BC6400	
5) NAME OF PROCESS: Wedron 3.5	
6) DESCRIPTION OF PROCESS: Moves sand to load-out.	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Dried raw sand	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: BC6400 exhausted to existing BH5000.	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): TBD	
10) MODEL NUMBER (IF KNOWN): TBD	11) SERIAL NUMBER (IF KNOWN): TBD
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 12/2011 (planned)
	b) OPERATION (MONTH/YEAR): 4/2012 (planned)
	c) LATEST MODIFICATION (MONTH/YEAR): _____
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): The installation will support the 2011 Wedron 3.5 project. This unit will be exhausted to the existing baghouse BH5000.	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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**FOR APPLICANT'S USE**

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?  IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): This unit will be exhausted to the existing baghouse BH5000. See technical support document for more detail.	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION?  IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):  NA	

<b>OPERATING INFORMATION</b>				
18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.				
19a) MAXIMUM OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
b) TYPICAL OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
20) ANNUAL THROUGHPUT	DEC-FEB(%)	MAR-MAY(%)	JUN-AUG(%)	SEP-NOV(%)
2,628,000 tons	25	25	25	25

<b>MATERIAL USAGE INFORMATION</b>					
	MAXIMUM RATES			TYPICAL RATES	
	LBS/HR		TONS/YEAR	LBS/HR	TONS/YEAR
21a) RAW MATERIALS					
Raw Sand	800,000		2,628,000		

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

FUEL USAGE DATA		
22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):
d) FUEL TYPE: <input type="checkbox"/> NATURAL GAS <input type="checkbox"/> FUEL OIL: GRADE NUMBER _____ <input type="checkbox"/> COAL <input type="checkbox"/> OTHER _____ IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.		
e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %, NA FOR NATURAL GAS):	
g) TYPICAL ASH CONTENT (WT %, NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):	
23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:		

**APPLICABLE RULES**

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.282	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?

☐

YES

☒

NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

### COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?

☒

YES

☐

NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Recordkeeping of PM10 emissions.

PM10 emissions will be calculated for using the appropriate FIRE emission factor, the sand throughput, and control efficiency of BG5000:

$(\text{Sand Throughput ton/hr})(0.0064 \text{ lb PM10/ton sand})(1-0.99) = \text{PM10 emissions}$

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Recordkeeping of PM10 emissions.

PM10 emissions will be calculated using the appropriate FIRE emission factor, the sand throughput, and control efficiency of BG5000:

$(\text{Sand Throughput ton/hr})(0.0064 \text{ lb PM10/ton sand})(1-0.99) = \text{PM10 emissions}$

Demonstration of ongoing compliance will also include periodic inspection and maintenance of the conveyor system.

### TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
sand throughpt	tons/mo; tons/yr	Citect	monthly; annual
PM10 Emission	tons/mol tons/yr	calculation	monthly; annual

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
sand throughpt	automated systm	Env. Coordinator	Plant Manager
PM10 Emission	Spreadsheet	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?

☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST?

☒ YES ☐ NO

IF NO, EXPLAIN:

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system is installed, maintained and operated for monitoring the air flow rate and pressure drop in the baghouse.

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

At the baghouse.

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34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?  IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?  IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?  IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:				
TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
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<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:				
REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY		
<div style="border: 1px solid black; padding: 2px;">Notification of deviation</div>	<div style="border: 1px solid black; padding: 2px;">Excess emissions monitrng</div>	<div style="border: 1px solid black; padding: 2px;">As required</div>		
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; padding: 2px;">equipment downtime, etc.</div>	<div style="border: 1px solid black; height: 20px;"></div>		
<div style="border: 1px solid black; padding: 2px;">Annual Emissions Report</div>	<div style="border: 1px solid black; padding: 2px;">Illinois AER</div>	<div style="border: 1px solid black; padding: 2px;">Annual</div>		



**(37)EMISSION INFORMATION**

REGULATED AIR POLLUTANT		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NO <sub>x</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM <sub>10</sub> )	MAXIMUM:	0.0256	0.112	.0064 lb/ton			( )			0.0256 lb/hr	0.112
	TYPICAL:						( )				
SULFUR DIOXIDE (SO <sub>2</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY:	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

<sup>1</sup>CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED. REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
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		MAXIMUM:						
		TYPICAL:						
EXAMPLE: Benzene	71432	MAXIMUM:	10.0	1.2		2	98% by wt control device leak-tight trucks	CFR 61 61.302(b),(d)
		TYPICAL:	8.0	0.8		2		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

<sup>1</sup> PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.

<sup>2</sup> CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup> PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup> DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup> RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
49a) LATITUDE:		b) LONGITUDE:
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
Conveyors & Elevators

<b>PROCESS EMISSION UNIT DATA AND INFORMATION</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER: _____
	EMISSION POINT #: _____
	DATE: _____

<b>SOURCE INFORMATION</b>	
1) SOURCE NAME: Wedron Silica Company	
2) DATE FORM PREPARED: _____	3) SOURCE ID NO. (IF KNOWN): 099804AAB

<b>GENERAL INFORMATION</b>	
4) NAME OF EMISSION UNIT: Belt Conveyors and Bucket Elevators	
5) NAME OF PROCESS: Wedron 3.5	
6) DESCRIPTION OF PROCESS: Conveyors and elevators move sand between equipment (e.g., dryer, screens) and to load-out.	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Dried raw sand	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: 31 units designated "BC_ _ _ _", and "EL_ _ _ _", exhausted to DC3300 and DC6300. See Table 1.	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): TBD	
10) MODEL NUMBER (IF KNOWN): TBD	11) SERIAL NUMBER (IF KNOWN): TBD
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 12/2011 (planned)
	b) OPERATION (MONTH/YEAR): 4/2012 (planned)
	c) LATEST MODIFICATION (MONTH/YEAR): 
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): The installation will support the 2011 Wedron 3.5 project. Four (4) of the proposed units will be exhausted to a new baghouse (DC3300), twenty three (23) will be exhausted to a new baghouse designated DC6300, six (6) units will be exhausted to new baghouse DC6400, and one (1) unit will be exhausted to existing baghouse BH5000 .	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Four (4) of the proposed units will be exhausted to a new baghouse (DC3300), twenty three (23) will be exhausted to a new baghouse designated DC6300, six (6) units will be exhausted to new baghouse DC6400, and one (1) unit will be exhausted to existing baghouse BH5000. See TSD for more detail.

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

NA

OPERATING INFORMATION				
18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.				
19a) MAXIMUM OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
b) TYPICAL OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
20) ANNUAL THROUGHPUT	DEC-FEB(%):	MAR-MAY(%):	JUN-AUG(%):	SEP-NOV(%):
2,628,000 tons	25	25	25	25

MATERIAL USAGE INFORMATION				
21a) RAW MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Raw Sand	600,000	2,628,000		

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

FUEL USAGE DATA		
22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):
d) FUEL TYPE: <input type="checkbox"/> NATURAL GAS <input type="checkbox"/> FUEL OIL: GRADE NUMBER _____ <input type="checkbox"/> COAL <input type="checkbox"/> OTHER _____ IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.		
e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %, NA FOR NATURAL GAS):	
g) TYPICAL ASH CONTENT (WT %, NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):	
23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:		

**APPLICABLE RULES**

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.282	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?

☐

YES

☒

NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

### COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?

☒

YES

☐

NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE – ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Recordkeeping of PM10 emissions.

PM10 emissions will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collectors DC3300 and DC6300 of 0.002 gr/dscf and their respective exhaust flow rates.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Recordkeeping of PM10 emissions.

Emissions from conveyors and elevators will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collectors DC3300 and DC6300 of 0.002 gr/dscf and thier respective exhasut flow rates.

Demonstration of ongoing compliance will also include periodic inspection and maintenance of the conveyor and elevator systems.

### TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
sand throughpt	tons/mo; tons/yr	Citect	monthly; annual
PM10 Emission	tons/mol tons/yr	calculation	monthly; annual



33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
sand throughpt	automated systm	Env. Coordinator	Plant Manager
PM10 Emission	Spreadsheet	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?

☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST?

☒ YES ☐ NO

IF NO, EXPLAIN:

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained and operated for monitoring the air flow rate and pressure drop in the baghouse.

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

At the baghouse.

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?  IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?  IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?  IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:				
TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
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36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:				
REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY		
<div style="border: 1px solid black; padding: 2px;">Notification of deviation</div>	<div style="border: 1px solid black; padding: 2px;">Excess emissions monitrng</div>	<div style="border: 1px solid black; padding: 2px;">As required</div>		
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; padding: 2px;">equipment downtime, etc.</div>	<div style="border: 1px solid black; height: 20px;"></div>		
<div style="border: 1px solid black; padding: 2px;">Annual Emissions Report</div>	<div style="border: 1px solid black; padding: 2px;">Illinois AER</div>	<div style="border: 1px solid black; padding: 2px;">Annual</div>		

**(37)EMISSION INFORMATION**

REGULATED AIR POLLUTANT		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NO <sub>x</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM <sub>10</sub> )	MAXIMUM:	See	DC3300,	DC6300,			( )				
	TYPICAL:	and	DC6400				( )				
SULFUR DIOXIDE (SO <sub>2</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY:	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

<sup>1</sup>CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
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		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE: Benzene	71432	MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
		TYPICAL:	8.0	0.8		2	leak-tight trucks	61.302(b),(d)

**IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.**

<sup>1</sup>PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.

<sup>2</sup>CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
49a) LATITUDE:		b) LONGITUDE:
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
Screens

<b>PROCESS EMISSION UNIT DATA AND INFORMATION</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER:
	EMISSION POINT #:
	DATE:

<b>SOURCE INFORMATION</b>	
1) SOURCE NAME: Wedron Silica Company	
2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN): 099804AAB

<b>GENERAL INFORMATION</b>	
4) NAME OF EMISSION UNIT: Screens	
5) NAME OF PROCESS: Wedron 3.5	
6) DESCRIPTION OF PROCESS: Sand screening in the scalping screen, Mexatex screens, and Apex screens.	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Dried raw sand.	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: VS3300, VS5310, VS5320, VS5330, VS5340, VS5350, VS5360, VS5370, VS5380, VS5390	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Rotex	
10) MODEL NUMBER (IF KNOWN): Megatex, Apex	11) SERIAL NUMBER (IF KNOWN): TBD
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 12/2011 (planned)
	b) OPERATION (MONTH/YEAR): 4/2012 (planned)
	c) LATEST MODIFICATION (MONTH/YEAR):
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): Installation of thirteen (13) new screens to process dried raw sand. The scalping screen (VS3300) will be exhausted to the new DC3300 baghouse. The remaining screens (Megatex and Apex) will be exhausted to the new DC6300 baghouse.	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

**APPLICATION PAGE** \_\_\_\_\_

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220-CAAPP

**FOR APPLICANT'S USE**

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):

---

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

The scalping screen (VS3300) will be exhausted to the new DC3300 baghouse. The remaining screens (Megatex and Apex) will be exhausted to the new DC6300 baghouse.

---

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

---

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

NA

OPERATING INFORMATION				
18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.				
19a) MAXIMUM OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
b) TYPICAL OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
20) ANNUAL THROUGHPUT	DEC-FEB(%)	MAR-MAY(%)	JUN-AUG(%)	SEP-NOV(%)
2,628,000 tons	25	25	25	25

MATERIAL USAGE INFORMATION				
21a) RAW MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Raw Sand	600,000	2,628,000		

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

FUEL USAGE DATA		
22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):
d) FUEL TYPE: <input type="checkbox"/> NATURAL GAS <input type="checkbox"/> FUEL OIL: GRADE NUMBER _____ <input type="checkbox"/> COAL <input type="checkbox"/> OTHER _____ IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.		
e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %, NA FOR NATURAL GAS):	
g) TYPICAL ASH CONTENT (WT %, NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):	
23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:		



### APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.282	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?

☐

YES

☒

NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

### COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?

☒

YES

☐

NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Recordkeeping of PM10 emissions.

Emissions from screens will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collectors DC3300 and DC6300 of 0.002 gr/dscf and their respective exhaust flow rates.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Recordkeeping of PM10 emissions.

Emissions from screens will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collectors DC3300 and DC6300 of 0.002 gr/dscf and their respective exhaust flow rates.

Demonstration of ongoing compliance will also include periodic inspection and maintenance of the conveyor system.

### TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
sand throughpt	tons/mo; tons/yr	Citect	monthly; annual
PM10 Emission	tons/mo; tons/yr	calculation	monthly; annual

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
sand throughpt	automated systm	Env. Coordinator	Plant Manager
PM10 Emission	Spreadsheet	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?

☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST?

☒ YES ☐ NO

IF NO, EXPLAIN:

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained and operated for monitoring the air flow rate and pressure drop in the baghouse.

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

At the baghouse.

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:				
TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:				
REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY		
<div style="border: 1px solid black; padding: 2px;">Notification of deviation</div>	<div style="border: 1px solid black; padding: 2px;">Excess emissions monitrng</div>	<div style="border: 1px solid black; padding: 2px;">As required</div>		
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; padding: 2px;">equipment downtime, etc.</div>	<div style="border: 1px solid black; height: 20px;"></div>		
<div style="border: 1px solid black; padding: 2px;">Annual Emissions Report</div>	<div style="border: 1px solid black; padding: 2px;">Illinois AER</div>	<div style="border: 1px solid black; padding: 2px;">Annual</div>		

**(37)EMISSION INFORMATION**

REGULATED AIR POLLUTANT		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:										
	TYPICAL:										
LEAD	MAXIMUM:										
	TYPICAL:										
NITROGEN OXIDES (NOx)	MAXIMUM:										
	TYPICAL:										
PARTICULATE MATTER (PART)	MAXIMUM:										
	TYPICAL:										
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See	DC3300								
	TYPICAL:	and	DC6300								
SULFUR DIOXIDE (SO2)	MAXIMUM:										
	TYPICAL:										
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:										
	TYPICAL:										
OTHER, SPECIFY:	MAXIMUM:										
	TYPICAL:										
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

<sup>1</sup>CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED. OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE: Benzene	71432	MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
		TYPICAL:	8.0	0.8		2	leak-tight trucks	61.302(b),(d)

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

<sup>1</sup>PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.

<sup>2</sup>CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE:		
49a) LATITUDE:		b) LONGITUDE:
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
Silos/Hoppers/Loadout

<b>PROCESS EMISSION UNIT DATA AND INFORMATION</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER: _____
	EMISSION POINT #: _____
	DATE: _____

<b>SOURCE INFORMATION</b>	
1) SOURCE NAME: Wedron Silica Company	
2) DATE FORM PREPARED: _____	3) SOURCE ID NO. (IF KNOWN): 099804AAB

<b>GENERAL INFORMATION</b>	
4) NAME OF EMISSION UNIT: Silos, Hoppers and Loadout Spouts	
5) NAME OF PROCESS: Wedron 3.5	
6) DESCRIPTION OF PROCESS: Silos, hoppers and spouts used for raw sand storage, processing and load-out.	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Raw sand	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: Fourteen (14) units designated either "SH ____", "TA ____", or "TS ____". See Table 1.	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): TBD	
10) MODEL NUMBER (IF KNOWN): TBD	11) SERIAL NUMBER (IF KNOWN): TBD
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 12/2011 (planned)
	b) OPERATION (MONTH/YEAR): 4/2012 (planned)
	c) LATEST MODIFICATION (MONTH/YEAR): _____
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): Installation of twelve (12) new silos/hoppers. SH3300 will be exhausted to new baghouse DC3300. Nine (9) units will be exhausted to new baghouse DC6300, and two (2) units will be exhasuted to new baghouse DC6400.	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): SH3300 will be exhausted to new baghouse DC3300. Eleven (11) units will be exhausted to new baghouse DC6300, and two (2) units will be exhasuted to new baghouse DC6400.	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):	

<b>OPERATING INFORMATION</b>				
18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.				
19a) MAXIMUM OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
b) TYPICAL OPERATING HOURS	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
8760	24	7	52	
20) ANNUAL THROUGHPUT	DEC-FEB(%)	MAR-MAY(%)	JUN-AUG(%)	SEP-NOV(%)
2,628,000 tons	25	25	25	25

<b>MATERIAL USAGE INFORMATION</b>						
21a) RAW MATERIALS	MAXIMUM RATES			TYPICAL RATES		
	LBS/HR		TONS/YEAR	LBS/HR		TONS/YEAR
Raw Sand	600,00		2,628,000			

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR

FUEL USAGE DATA		
22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):
d) FUEL TYPE: <input type="checkbox"/> NATURAL GAS <input type="checkbox"/> FUEL OIL: GRADE NUMBER _____ <input type="checkbox"/> COAL <input type="checkbox"/> OTHER _____ IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.		
e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %, NA FOR NATURAL GAS):	
g) TYPICAL ASH CONTENT (WT %, NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):	
23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:		

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### APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.282	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?

☐

YES

☒

NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

### COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?

☒

YES

☐

NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Recordkeeping of PM10 emissions.

Emissions from these silos/hoppers/spouts will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collectors DC3300 and DC6300 of 0.002 gr/dscf and their respective exhaust flow rates.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Recordkeeping of PM10 emissions.

Emissions from these silos/hoppers/souts will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collectors DC3300 and DC6300 of 0.002 gr/dscf and their respective exhaust flow rates.

Demonstration of ongoing compliance will also include periodic inspection and maintenance of the conveyor system.

### TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
sand throughpt	tons/mo; tons/yr	Citect	monthly; annual
PM10 Emission	tons/mo; tons/yr	calculation	monthly; annual

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33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
sand throughpt	automated systm	Env. Coordinator	Plant Manager
PM10 Emission	Spreadsheet	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?

☒ YES

☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST?

☒ YES

☐ NO

IF NO, EXPLAIN:

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained and operated for monitoring the air flow rate and pressure drop in the baghouse.

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

At the baghouse.

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34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?  IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO			
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?  IF NO, EXPLAIN:	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO			
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?  IF NO, EXPLAIN:	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO			
35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:				
TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>
36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:				
REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY		
<div style="border: 1px solid black; padding: 2px;">Notification of deviation</div>	<div style="border: 1px solid black; padding: 2px;">Excess emissions monitrng</div>	<div style="border: 1px solid black; padding: 2px;">As required</div>		
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; padding: 2px;">equipment downtime, etc.</div>	<div style="border: 1px solid black; height: 20px;"></div>		
<div style="border: 1px solid black; padding: 2px;">Annual Emissions Report</div>	<div style="border: 1px solid black; padding: 2px;">Illinois AER</div>	<div style="border: 1px solid black; padding: 2px;">Annual</div>		

**(37) EMISSION INFORMATION**

REGULATED AIR POLLUTANT		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE		
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE	(UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE	(UNITS)
CARBON MONOXIDE (CO)	MAXIMUM:						( )					
	TYPICAL:						( )					
LEAD	MAXIMUM:						( )					
	TYPICAL:						( )					
NITROGEN OXIDES (NOx)	MAXIMUM:						( )					
	TYPICAL:						( )					
PARTICULATE MATTER (PART)	MAXIMUM:						( )					
	TYPICAL:						( )					
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See	DC3300	DC6300,			( )					
	TYPICAL:	and	DC6400				( )					
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )					
	TYPICAL:						( )					
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )					
	TYPICAL:						( )					
OTHER, SPECIFY:	MAXIMUM:						( )					
	TYPICAL:						( )					
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)		212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)		212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

<sup>1</sup>CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE: Benzene	71432	MAXIMUM:	10.0	1.2		2	98% by wt control device leak-tight trucks	CFR 61 61.302(b),(d)
		TYPICAL:	8.0	0.8		2		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

<sup>1</sup>PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.

<sup>2</sup>CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
49a) LATITUDE:		b) LONGITUDE:
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
Rotary Dryer

<b>FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER:
	EMISSION POINT #:
	DATE:

<b>SOURCE INFORMATION</b>	
1) SOURCE NAME: Wedron Silica Company	
2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN): 099804AAB

<b>GENERAL INFORMATION</b>	
4) NAME OF EMISSION UNIT: Rotary Dryer RD3300	
5) NAME OF PROCESS: Wedron 3.5	
6) DESCRIPTION OF PROCESS: Wet raw sand is dried in the natural gas fired rotary heater.	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Raw sand	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: RD3300	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): TBD	
10) MODEL NUMBER (IF KNOWN): TBD	11) SERIAL NUMBER (IF KNOWN): TBD
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 12/2011 (planned)
	b) OPERATION (MONTH/YEAR): 4/2012 (planned)
	c) LATEST MODIFICATION (MONTH/YEAR):
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): Installation of a new rotary dryer used to remove moisture from wet sand. Exhaust will be directed to new baghouse DC3300.	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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**FOR APPLICANT'S USE**

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Exhaust will be directed to new baghouse DC3300.

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

OPERATING INFORMATION				
18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.				
19a) MAXIMUM OPERATING HOURS 8760	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS 8760	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT 2,628,000 tons	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION	
21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):	100 MMBtu/hr
b) IS MORE THAN ONE FUEL FIRED AT A TIME?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
IF YES, EXPLAIN:	

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)  
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

NA

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)	100	na	na	na
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)	100	na	na	na
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	na	na	na	na

NATURAL GAS FIRING		
22a) CURRENT ORIGIN OF NATURAL GAS:		
<input checked="" type="checkbox"/> PIPELINE (FIRM CONTRACT) <input type="checkbox"/> BY-PRODUCT, SPECIFY ORIGIN: _____		
<input type="checkbox"/> PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) <input type="checkbox"/> OTHER, - SPECIFY: _____		
b) TYPICAL HEAT CONTENT (BTU/SCF): 1000 Btu/scf		
c) MAXIMUM CONSUMPTION	SCF/MONTH: 73,000,000	SCF/YEAR: 876,000,000
d) TYPICAL CONSUMPTION	SCF/MONTH: 48,666,618	SCF/YEAR: 584,000,000

OIL FIRING		
23a) OIL TYPE (CHECK ONE):		
<input type="checkbox"/> NO. 1 <input type="checkbox"/> NO. 2 <input type="checkbox"/> NO. 4 <input type="checkbox"/> NO. 5 <input type="checkbox"/> NO. 6		
<input type="checkbox"/> OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER): _____		
b) TYPICAL HEAT CONTENT:		c) IS OIL USED ONLY AS A RESERVE FUEL?
<input type="checkbox"/> BTU/LB - OR - <input type="checkbox"/> BTU/GAL		<input type="checkbox"/> YES <input type="checkbox"/> NO
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):		e) TYPICAL ASH CONTENT AS FIRED (WT %):
f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:
h) FIRING DIRECTION:		
<input type="checkbox"/> HORIZONTAL <input type="checkbox"/> TANGENTIAL <input type="checkbox"/> OTHER, SPECIFY: _____		

<b>SOLID FUEL FIRING</b>		
<b>*24a) SOLID FUEL TYPE</b> (CHECK ALL THAT APPLY): <input type="checkbox"/> SUB-BITUMINOUS COAL <input type="checkbox"/> LIGNITE COAL <input type="checkbox"/> BITUMINOUS COAL  <input type="checkbox"/> ANTHRACITE COAL <input type="checkbox"/> OTHER, SPECIFY: _____		
b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB):	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %):	
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):	
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH):	g) IS THE COAL CLEANED? <input type="checkbox"/> YES <input type="checkbox"/> NO	
h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %):		
i) MAXIMUM CONSUMPTION	TON/MONTH:	TON/YEAR:
j) TYPICAL CONSUMPTION	TON/MONTH:	TON/YEAR:
k) FIRING TYPE (CHECK ONE): <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <input type="checkbox"/> TRAVELING GRATE             </div> <div style="text-align: center;"> <input type="checkbox"/> SPREADER STOKER % REINJECTION:             </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <input type="checkbox"/> CYCLONE             </div> <div style="text-align: center;"> <input type="checkbox"/> PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM      DRY BOTTOM             </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <input type="checkbox"/> HORIZONTALLY OPPOSED             </div> <div style="text-align: center;"> <input type="checkbox"/> OTHER, SPECIFY: _____             </div> </div>		

\*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

<b>OTHER FUEL FIRING</b>		
<b>25a) OTHER FUEL FIRING</b>		
	TYPE	SUPPLIER
a)		
b)		
b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):	
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):	
f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

**APPLICABLE RULES**

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.302	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?

☐

YES

☒

NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

### COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?

☒

YES

☐

NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Recordkeeping of PM10 emissions.

PM10 emissions will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collector DC3300 of 0.002 gr/dscf and its exhaust flow rate.

NOx, CO, SO2, and VOC emissions shall be calculated using the following emission factors for natural gas combustion from AP-42: 100 lb NOx/MMcf; 84 lb CO/MMcf; 5.5 lb VOC/MMcf 0.06 lb SO2/MMcf.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Recordkeeping of PM10 emissions from the dryer will be determined in conjunction with other sources based upon the guaranteed exit grain loading of the new baghouse dust collector DC3300 of 0.002 gr/dscf and its exhaust flow rate.

Demonstration of ongoing compliance will also include periodic inspection and maintenance of the conveyor and elevator systems.

NOx, CO, SO2, and VOC emissions shall be calculated using the following emission factors for natural gas combustion from AP-42: 100 lb NOx/MMcf; 84 lb CO/MMcf; 5.5 lb VOC/MMcf 0.06 lb SO2/MMcf.

### TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
sand throughpt	tons/mo; tons/yr	Citect	monthly; annual
PM10 Emission	tons/mo; tons/yr	calculation	monthly; annual

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35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
sand throughpt	automated systm	Env. Coordinator	Plant Manager
PM10 Emission		Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?

☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST?

☒ YES ☐ NO

IF NO, EXPLAIN:

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained and operated for monitoring the air flow rate and pressure drop in the baghouse.

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

At the baghouse.

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36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?  IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																									
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?  IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																									
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?  IF NO, EXPLAIN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																									
37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">TEST DATE</th> <th style="width: 15%;">TEST METHOD</th> <th style="width: 15%;">TESTING COMPANY</th> <th style="width: 15%;">OPERATING CONDITIONS</th> <th style="width: 40%;">SUMMARY OF RESULTS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS																				
TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS																						
38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">REPORTING REQUIREMENTS</th> <th style="width: 33%;">TITLE OF REPORT</th> <th style="width: 33%;">FREQUENCY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY																						
REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY																								

**(39)EMISSION INFORMATION**

REGULATED AIR POLLUTANT		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE		
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)	
CARBON MONOXIDE (CO)	MAXIMUM:	8.40	36.79				( )	Gg		8.4	lb/hr	36.8
	TYPICAL:						( )					
LEAD	MAXIMUM:						( )					
	TYPICAL:						( )					
NITROGEN OXIDES (NO <sub>x</sub> )	MAXIMUM:	10.0	43.8				( )			10.0	lb/hr	43.8
	TYPICAL:						( )					
PARTICULATE MATTER (PART)	MAXIMUM:						( )					
	TYPICAL:						( )					
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See	DC3300				( )					
	TYPICAL:						( )					
SULFUR DIOXIDE (SO <sub>2</sub> )	MAXIMUM:	0.06	0.26				( )			0.06	lb/hr	0.26
	TYPICAL:						( )					
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	0.55	2.41				( )			0.55	lb/hr	2.41
	TYPICAL:						( )					
OTHER, SPECIFY:	MAXIMUM:						( )					
	TYPICAL:						( )					
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR		22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80			

**IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.**

<sup>1</sup>CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE

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(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
HAP INFORMATION		<input type="checkbox"/> <sup>1</sup> ACTUAL EMISSION RATE <input type="checkbox"/> <sup>1</sup> UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
Benzene	71432	TYPICAL:	8.0	0.8		2	leak-tight trucks	61.302(b),(d)

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

<sup>1</sup>PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.

<sup>2</sup>CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
44) DISCHARGE HEIGHT ABOVE GRADE (FT):		
45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		
50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
51a) LATITUDE:		b) LONGITUDE:
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
DC3300

**AIR POLLUTION CONTROL  
EQUIPMENT  
DATA AND INFORMATION****FOR AGENCY USE ONLY**

ID NUMBER: \_\_\_\_\_

CONTROL EQUIPMENT #: \_\_\_\_\_

DATE: \_\_\_\_\_

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

**SOURCE INFORMATION**

1) SOURCE NAME: \_\_\_\_\_

Wedron Silica Company

2) DATE FORM  
PREPARED: \_\_\_\_\_3) SOURCE ID NO.  
(IF KNOWN): \_\_\_\_\_

099804AAB

**GENERAL INFORMATION**

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: \_\_\_\_\_

Baghouse DC3300

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: \_\_\_\_\_

DC3300

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): \_\_\_\_\_

Donaldson Torit

7) MODEL NUMBER (IF KNOWN):  
Model 458RFWH108) SERIAL NUMBER (IF KNOWN):  
TBD9) DATES OF COMMENCING CONSTRUCTION,  
OPERATION AND/OR MOST RECENT MODIFICATION  
OF THIS EQUIPMENT (ACTUAL OR PLANNED)a) CONSTRUCTION (MONTH/YEAR):  
12/11b) OPERATION (MONTH/YEAR):  
04/12

c) LATEST MODIFICATION (MONTH/YEAR): \_\_\_\_\_

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

Installation of new baghouse designated DC3300. The unit will control emissions of particulate matter from the rotary dryer, scalping screen, and various conveyors, elevators, and silos.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:	
NAME	DESIGNATION OR CODE NUMBER
Rotary Dryer, two belt conveyors, scalping	RD3300; BC3300; EL3300; SH3300;
screen, two bucket elevators, and a silo.	BC3310; EL3310; VS3300.

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT (E.G., TECHNICAL DRAWINGS):

NA

<b>OPERATING SCHEDULE</b>	
<p>14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:</p> <p>NA</p>	
<p>15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:</p> <p>NA</p>	
<p>b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span></p> <p>IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:</p>   	

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**APPLICABLE RULES**

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.282	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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**COMPLIANCE INFORMATION**

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?



YES



NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE – ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

PM10 emissions are calculated based upon the following methodology:

$PM_{10} = \text{flow rate of baghouse (dscfm)} \times \text{grain loading (gr/dscf)} \times 60 \text{ min/hr}$

The guaranteed emission factor for the baghouse is 0.002 gr/dscf. The flow rate of the unit is 40,000 scfm.

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated as described with #22 above. Additionally, ongoing compliance will also include periodic inspection and maintenance of the equipment.

**TESTING, MONITORING, RECORDKEEPING AND REPORTING**

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Pressure drop	psi	manual reading	daily
air flow rate	cfm	manual reading	daily
sand throughput	tons/mo; tons/yr	Citect	monthly; annually
PM10 emissions	tons/mo; tons/yr	calculation	monthly; annually

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24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Pressure drop	manual reading	Env. Coordinator	Plant Manager
Air flow rate	manual reading	Env. Coordinator	Plant Manager
Sand throughput	Automated system	Env. Coordinator	Plant Manager
PM10 emissions	Automated system	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?



YES



NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST?



YES



NO

IF NO, EXPLAIN:

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained, and operated for monitoring air flow rate and pressure drop in the baghouse.

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

At the baghouse.

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25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?  IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO																									
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?  IF NO, EXPLAIN:	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO																									
f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION?  IF NO, EXPLAIN:	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO																									
26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:																										
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<b>CAPTURE AND CONTROL</b>
28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):  Ductwork and blower.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☐ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3:

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
	(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i. PM/PM10	100	100	99	99	99	99
ii.						
iii.						

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

Outlet concentration will be no more than 0.002 grains per dscf exhaust.

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD		DATE LAST TESTED
CAPTURE:	Engineering estimate	NA
CONTROL:	Manufacturer's guarantee	NA
OVERALL:	Based on estimated capture and manufacturer's guarantee control	NA

c) REQUIRED PERFORMANCE:

REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i.				
ii.				
iii.				

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

Outlet concentration will be no more than 0.002 grains per dscf exhaust.

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**(31)EMISSION INFORMATION**

REGULATED AIR POLLUTANT		<sup>1</sup> ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NO <sub>x</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	0.69	3.0	.002 gr/dsf		5	( )			0.69	3.0
	TYPICAL:	0.69	3.0	.002 gr/dsf		5	( )				
SULFUR DIOXIDE (SO <sub>2</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY:	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

<sup>1</sup> PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup> PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup> PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup> DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup> RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
HAP INFORMATION		<sup>1</sup> ACTUAL EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
Benzene	71432	TYPICAL:	8.0	0.8		2	leak-tight trucks	61.302(b),(d)

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

<sup>1</sup> PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup> CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup> PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup> DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup> RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS. <div style="text-align: center; padding: 5px;">Stack</div>		
34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
35) DISCHARGE HEIGHT ABOVE GRADE (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): <div style="text-align: center; padding: 5px;">40,000</div>	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD): <div style="text-align: center; padding: 5px;">Vertical</div>		
41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		RD3300
b)		BC3300
c)		VS3300
d)		BC3310
e)		EL3300
f)		SH3300
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)? <div style="text-align: center; padding: 5px;">100%</div>
43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
DC6300

**AIR POLLUTION CONTROL  
EQUIPMENT  
DATA AND INFORMATION**

**FOR AGENCY USE ONLY**

ID NUMBER: \_\_\_\_\_

CONTROL EQUIPMENT #: \_\_\_\_\_

DATE: \_\_\_\_\_

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

**SOURCE INFORMATION**

1) SOURCE NAME:

Wedron Silica Company

2) DATE FORM  
PREPARED:

3) SOURCE ID NO.  
(IF KNOWN):

099804AAB

**GENERAL INFORMATION**

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

Baghouse DC6300

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

DC6300

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):

Donaldson Torit

7) MODEL NUMBER (IF KNOWN):

Model 458RFWH10

8) SERIAL NUMBER (IF KNOWN):

TBD

9) DATES OF COMMENCING CONSTRUCTION,  
OPERATION AND/OR MOST RECENT MODIFICATION  
OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):

12/11

b) OPERATION (MONTH/YEAR):

04/12

c) LATEST MODIFICATION (MONTH/YEAR):

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

Installation of new baghouse designated DC6300. The unit will control emissions of particulate matter from various screens, conveyors, elevators, and silos.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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**FOR APPLICANT'S USE**

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME

DESIGNATION OR CODE NUMBER

Multiple EUs - see process flow diagram

Multiple EUs - see process flow diagram

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION?

☐

YES

☒

NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT (E.G., TECHNICAL DRAWINGS):

NA

#### OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

NA

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

NA

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION?

☒

YES

☐

NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

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**APPLICABLE RULES**

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)

EMISSION STANDARD(S)

REQUIREMENT(S)

PM
PM/PM10

IAC 212.123
IAC 212.321

less than or equal to 30% opacity
Emission limits based on process throughput

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)

RECORDKEEPING RULE(S)

REQUIREMENT(S)

PM/PM10

39.5(7)of IL Env. Protection Act

Records of sand throughput, PM/PM10 emissions

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)

REPORTING RULE(S)

REQUIREMENT(S)

PM/PM10

IAC 201.302

Annual Emission Report

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)

MONITORING RULE(S)

REQUIREMENT(S)

PM/PM10

39.5(7)of IL Env. Protection Act

Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)

TESTING RULE(S)

REQUIREMENT(S)

PM
PM/PM10

IAC 201.282
IAC 212.108/110

Emissions testing within 90 days of IEPA written request
PM/Opacity/VE testing upon IEPA written notification

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**COMPLIANCE INFORMATION**

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?



YES



NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

PM10 emissions are calculated based upon the following methodology:

$PM_{10} = \text{flow rate of baghouse (dscfm)} \times \text{grain loading (gr/dscf)} \times 60 \text{ min/hr}$

The guaranteed emission factor for the baghouse is 0.002 gr/dscf. The flow rate of the unit is 35,000 sfcfm.

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated as described with #22 above. Additionally, ongoing compliance will also include periodic inspection and maintenance of the equipment.

**TESTING, MONITORING, RECORDKEEPING AND REPORTING**

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Pressure drop	psi	manual reading	daily
air flow rate	cfm	manual reading	daily
sand throughput	tons/mo; tons/yr	Citect	monthly; annually
PM10 emissions	tons/mo; tons/yr	calculation	monthly; annually

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24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Pressure drop	manual reading	Env. Coordinator	Plant Manager
Air flow rate	manual reading	Env. Coordinator	Plant Manager
Sand throughput	Automated system	Env. Coordinator	Plant Manager
PM10 emissions	Automated system	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?



YES



NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST?



YES



NO

IF NO, EXPLAIN:

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained, and operated for monitoring air flow rate and pressure drop in the baghouse.

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

At the baghouse.

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25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?

☒ YES

☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?

☒ YES

☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION?

☒ YES

☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Notification of Deviation	Excess emissions, monitoring	As required
	equip downtime, and misc.	
Annual Emissions Report	Illinois AER	Annual

### **CAPTURE AND CONTROL**

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Ductwork and blower.

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29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☐ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3:

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
	(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i. PM/PM10	100	100	99	99	99	99
ii.						
iii.						

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

Outlet concentration will be no more than 0.002 grains per dscf exhaust.

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD		DATE LAST TESTED
CAPTURE:	Engineering estimate	NA
CONTROL:	Manufacturer's guarantee	NA
OVERALL:	Based on estimated capture and manufacturer's guarantee control	NA

c) REQUIRED PERFORMANCE:

REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i.				
ii.				
iii.				

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

Outlet concentration will be no more than 0.002 grains per dscf exhaust.

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(31)EMISSION INFORMATION											
REGULATED AIR POLLUTANT		<sup>1</sup> ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NO <sub>x</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	0.60	2.3	.002 gr/dsf		5	( )			0.60 lb/hr	2.3
	TYPICAL:	0.60	2.3	.002 gr/dsf		5	( )				
SULFUR DIOXIDE (SO <sub>2</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY:	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

<sup>1</sup> PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup> PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup> PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)

<sup>4</sup> DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup> RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
HAP INFORMATION		<sup>1</sup> ACTUAL EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
Benzene	71432	TYPICAL:	8.0	0.8		2	leak-tight trucks	61.302(b),(d)

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

<sup>1</sup> PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup> CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup> PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup> DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup> RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS. <div style="text-align: center; padding: 5px;">Stack</div>		
34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
35) DISCHARGE HEIGHT ABOVE GRADE (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): <div style="text-align: center; padding: 5px;">35,000</div>	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD): <div style="text-align: center; padding: 5px;">Vertical</div>		
41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME		FLOW DIAGRAM DESIGNATION
a)		See Technical Support Document Table 1.
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)? <div style="text-align: center; padding: 5px;">100%</div>
43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:          

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
DC6400

**AIR POLLUTION CONTROL  
EQUIPMENT  
DATA AND INFORMATION**

**FOR AGENCY USE ONLY**

ID NUMBER: \_\_\_\_\_

CONTROL EQUIPMENT #: \_\_\_\_\_

DATE: \_\_\_\_\_

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

**SOURCE INFORMATION**

1) SOURCE NAME: \_\_\_\_\_

Wedron Silica Company

2) DATE FORM  
PREPARED: \_\_\_\_\_

3) SOURCE ID NO.  
(IF KNOWN): 099804AAB

**GENERAL INFORMATION**

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: \_\_\_\_\_

Baghouse DC6400

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: \_\_\_\_\_

DC6400

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): \_\_\_\_\_

Donaldson Torit

7) MODEL NUMBER (IF KNOWN): \_\_\_\_\_

Model 458RFWH10

8) SERIAL NUMBER (IF KNOWN): \_\_\_\_\_

TBD

9) DATES OF COMMENCING CONSTRUCTION,  
OPERATION AND/OR MOST RECENT MODIFICATION  
OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):

12/11

b) OPERATION (MONTH/YEAR):

04/12

c) LATEST MODIFICATION (MONTH/YEAR):

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

Installation of new baghouse designated DC6400. The unit will control emissions of particulate matter from various conveyors, elevators, and silos.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
4 Belt conveyors,	BC6410; BC6420; BC6430; BC6440
2 bucket elevators, and	BE6410; BE6420
2 silos.	TA6400; TA6410

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION?

☐

YES

☒

NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT (E.G., TECHNICAL DRAWINGS):

NA

**OPERATING SCHEDULE**

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

NA

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

NA

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION?

☒

YES

☐

NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

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### APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	IAC 212.123	less than or equal to 30% opacity
PM/PM10	IAC 212.321	Emission limits based on process throughput

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Records of sand throughput, PM/PM10 emissions

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM/PM10	IAC 201.302	Annual Emission Report

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
PM/PM10	39.5(7)of IL Env. Protection Act	Periodic monitoring, inspection, maintenance and repair of the control device and sand handling process shall be performed to ensure that the system is operating properly.

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
PM	IAC 201.282	Emissions testing within 90 days of IEPA written request
PM/PM10	IAC 212.108/110	PM/Opacity/VE testing upon IEPA written notification

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**COMPLIANCE INFORMATION**

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?



YES



NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

PM10 emissions are calculated based upon the following methodology:

$PM_{10} = \text{flow rate of baghouse (dscfm)} \times \text{grain loading (gr/dscf)} \times 60 \text{ min/hr}$

The guaranteed emission factor for the baghouse is 0.002 gr/dscf. The flow rate of the unit is 10,000 scfm.

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated as described with #22 above. Additionally, ongoing compliance will also include periodic inspection and maintenance of the equipment.

**TESTING, MONITORING, RECORDKEEPING AND REPORTING**

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Pressure drop	psi	manual reading	daily
air flow rate	cfm	manual reading	daily
sand throughput	tons/mo; tons/yr	Citect	monthly; annually
PM10 emissions	tons/mo; tons/yr	calculation	monthly; annually

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24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Pressure drop	manual reading	Env. Coordinator	Plant Manager
Air flow rate	manual reading	Env. Coordinator	Plant Manager
Sand throughput	Automated system	Env. Coordinator	Plant Manager
PM10 emissions	Automated system	Env. Coordinator	Plant Manager

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?



YES



NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST?



YES



NO

IF NO, EXPLAIN:

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

A continuous monitoring system will be installed, maintained, and operated for monitoring air flow rate and pressure drop in the baghouse.

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Pressure drop and air flow rate.

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

At the baghouse.

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25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?

☒ YES

☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?

☒ YES

☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION?

☒ YES

☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Notification of Deviation	Excess emissions, monitring	As required
	equip downtime, and misc.	
Annual Emissions Report	Illinois AER	Annual

### **CAPTURE AND CONTROL**

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Ductwork and blower.

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29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☐ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3:

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
	(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
PM/PM10	100	100	99	99	99	99

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

Outlet concentration will be no more than 0.002 grains per dscf exhaust.

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD		DATE LAST TESTED
CAPTURE:	Engineering estimate	NA
CONTROL:	Manufacturer's guarantee	NA
OVERALL:	Based on estimated capture and manufacturer's guarantee control	NA

c) REQUIRED PERFORMANCE:

REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

Outlet concentration will be no more than 0.002 grains per dscf exhaust.

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(31)EMISSION INFORMATION											
REGULATED AIR POLLUTANT		<sup>1</sup> ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			<sup>2</sup> PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NO <sub>x</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER ≤ 10 MICROMETERS (PM <sub>10</sub> )	MAXIMUM:	0.17	0.75	.002 gr/dsf		5	( )			0.17 lb/hr	0.75
	TYPICAL:	0.17	0.75	.002 gr/dsf		5	( )				
SULFUR DIOXIDE (SO <sub>2</sub> )	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY:	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	5.00	21.9	0.3 GR/DSCF		1	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LBS/HR)	212.321	19.80		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

<sup>1</sup>PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.).

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)

<sup>5</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION								
HAP INFORMATION		<sup>1</sup> ACTUAL EMISSION RATE				ALLOWABLE BY RULE		
NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>4</sup> DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RULE
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
Benzene	71432	TYPICAL:	8.0	0.8		2	leak-tight trucks	61.302(b),(d)

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

<sup>1</sup> PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup> CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

<sup>3</sup> PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).

<sup>4</sup> DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

<sup>5</sup> RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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<b>EXHAUST POINT INFORMATION</b>		
33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS. <div style="text-align: center; padding: 5px;">Stack</div>		
34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
35) DISCHARGE HEIGHT ABOVE GRADE (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT): <div style="text-align: center; padding: 5px;">TBD</div>		
37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): <div style="text-align: center; padding: 5px;">10,000</div>	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD): <div style="text-align: center; padding: 5px;">Vertical</div>		
41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		
NAME	FLOW DIAGRAM DESIGNATION	
a)	BC6410	
b)	BE6410	
c)	TA6400	
d)	TA6410	
e)	BC6420	
f)	BE6420	
g)	BC6430, BC6440	

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?	100%
43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

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WED00000915



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
DC3300

<b>SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER:
	CONTROL EQUIPMENT #:
	DATE:

<b>DATA AND INFORMATION</b>											
1) FLOW DIAGRAM DESIGNATION OF FILTER:  DC3300											
2) FILTER CONFIGURATION (CHECK ONE): <input type="checkbox"/> OPEN PRESSURE <input type="checkbox"/> CLOSED PRESSURE <input type="checkbox"/> CLOSED SUCTION <input checked="" type="checkbox"/> OTHER, SPECIFY: <u>Bags</u>											
3) DESCRIBE FILTER MATERIAL: 10.5 oz. Dur-Life Polyester											
4) FILTERING AREA (SQUARE FEET):  7,148	5) AIR TO CLOTH RATIO (FEET/MIN):  5.6:1										
6) CLEANING METHOD <input type="checkbox"/> SHAKER <input type="checkbox"/> REVERSE AIR <input checked="" type="checkbox"/> PULSE AIR <input type="checkbox"/> PULSE JET <input type="checkbox"/> OTHER, SPECIFY: _____											
7) NORMAL RANGE OF PRESSURE DROP:    1                      TO    6                      (INCH H <sub>2</sub> O)											
8a) INLET EMISSION STREAM PARAMETERS:											
MOISTURE CONTENT (% BY VOLUME):	<table border="1"><thead><tr><th>MAX</th><th>TYPICAL</th></tr></thead><tbody><tr><td>0.5</td><td>0.1</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>PARTICULATE INLET LOADING (GRAINS/SCF):</td><td><table border="1"><tbody><tr><td>&lt;5 .0</td><td>unknown</td></tr></tbody></table></td></tr></tbody></table>	MAX	TYPICAL	0.5	0.1	<hr/>		PARTICULATE INLET LOADING (GRAINS/SCF):	<table border="1"><tbody><tr><td>&lt;5 .0</td><td>unknown</td></tr></tbody></table>	<5 .0	unknown
MAX	TYPICAL										
0.5	0.1										
<hr/>											
PARTICULATE INLET LOADING (GRAINS/SCF):	<table border="1"><tbody><tr><td>&lt;5 .0</td><td>unknown</td></tr></tbody></table>	<5 .0	unknown								
<5 .0	unknown										
b) MEAN PARTICLE DIAMETER (MICRONS):											

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	40,000	40,000
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):	70	70
EFFICIENCY (PM REDUCTION):	(%) 99	(%) 99
EFFICIENCY (PM10 REDUCTION):	(%) 99	(%) 99

10) HOW IS FILTER MONITORED  
FOR INDICATIONS OF  
DETERIORATION  
(E.G., BROKEN BAGS)?

☐

CONTINUOUS  
OPACITY

☒

PRESSURE  
DROP

☐

ALARMS-AUDIBLE  
TO PROCESS  
OPERATOR

☐

VISUAL OPACITY READINGS, FREQUENCY:

☐

OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

Magnahelic pressure drop monitors will be installed at the baghouse and will be read on a weekly basis.

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

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WED00000917



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
DC6300

<b>SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER:
	CONTROL EQUIPMENT #:
	DATE:

<b>DATA AND INFORMATION</b>					
1) FLOW DIAGRAM DESIGNATION OF FILTER:  DC6300					
2) FILTER CONFIGURATION (CHECK ONE): <input type="checkbox"/> OPEN PRESSURE <input type="checkbox"/> CLOSED PRESSURE <input type="checkbox"/> CLOSED SUCTION <input checked="" type="checkbox"/> OTHER, SPECIFY: <u>Bags</u>					
3) DESCRIBE FILTER MATERIAL: 10.5 oz. Dur-Life Polyester					
4) FILTERING AREA (SQUARE FEET):  5,958	5) AIR TO CLOTH RATIO (FEET/MIN):  5.8:1				
6) CLEANING METHOD <input type="checkbox"/> SHAKER <input type="checkbox"/> REVERSE AIR <input checked="" type="checkbox"/> PULSE AIR <input type="checkbox"/> PULSE JET <input type="checkbox"/> OTHER, SPECIFY: _____					
7) NORMAL RANGE OF PRESSURE DROP:    1                      TO    6                      (INCH H <sub>2</sub> O)					
8a) INLET EMISSION STREAM PARAMETERS:					
MOISTURE CONTENT (% BY VOLUME):	<table border="1"><thead><tr><th>MAX</th><th>TYPICAL</th></tr></thead><tbody><tr><td>0.5</td><td>0.1</td></tr></tbody></table>	MAX	TYPICAL	0.5	0.1
MAX	TYPICAL				
0.5	0.1				
PARTICULATE INLET LOADING (GRAINS/SCF):	<table border="1"><tbody><tr><td>&lt;5 .0</td><td>unknown</td></tr></tbody></table>	<5 .0	unknown		
<5 .0	unknown				
b) MEAN PARTICLE DIAMETER (MICRONS):					

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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WED00000918

9) FILTER OPERATING PARAMETERS:

INLET FLOW RATE (SCFM):

DURING MAXIMUM  
OPERATION OF  
FEEDING UNIT(S)

35,000

DURING TYPICAL  
OPERATION OF  
FEEDING UNIT(S)

35,000

INLET GAS TEMPERATURE (DEGREES  
FAHRENHEIT):

70

70

EFFICIENCY (PM REDUCTION):

(%)  
99

(%)  
99

EFFICIENCY (PM10 REDUCTION):

(%)  
99

(%)  
99

10) HOW IS FILTER MONITORED  
FOR INDICATIONS OF  
DETERIORATION  
(E.G., BROKEN BAGS)?

☐ CONTINUOUS  
OPACITY

☒ PRESSURE  
DROP

☐ ALARMS-AUDIBLE  
TO PROCESS  
OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: \_\_\_\_\_

☐ OTHER, SPECIFY: \_\_\_\_\_

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

Magnahelic pressure drop monitors will be installed at the baghouse and will be read on a weekly basis.

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

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WED00000919



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION  
P.O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**FOR APPLICANT'S USE**

Revision #: \_\_\_\_\_  
Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Page \_\_\_\_ of \_\_\_\_  
Source Designation:  
DC6400

<b>SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)</b>	<b>FOR AGENCY USE ONLY</b>
	ID NUMBER: _____
	CONTROL EQUIPMENT #: _____
	DATE: _____

<b>DATA AND INFORMATION</b>							
1) FLOW DIAGRAM DESIGNATION OF FILTER:  DC6400							
2) FILTER CONFIGURATION (CHECK ONE): <input type="checkbox"/> OPEN PRESSURE <input type="checkbox"/> CLOSED PRESSURE <input type="checkbox"/> CLOSED SUCTION <input checked="" type="checkbox"/> OTHER, SPECIFY: <u>Bags</u>							
3) DESCRIBE FILTER MATERIAL: 10.5 oz. Dur-Life Polyester							
4) FILTERING AREA (SQUARE FEET): 1,889	5) AIR TO CLOTH RATIO (FEET/MIN): 5.2:1						
6) CLEANING METHOD <input type="checkbox"/> SHAKER <input type="checkbox"/> REVERSE AIR <input checked="" type="checkbox"/> PULSE AIR <input type="checkbox"/> PULSE JET <input type="checkbox"/> OTHER, SPECIFY: _____							
7) NORMAL RANGE OF PRESSURE DROP:    1                      TO    6                      (INCH H <sub>2</sub> O)							
8a) INLET EMISSION STREAM PARAMETERS:							
MOISTURE CONTENT (% BY VOLUME):	<table border="1"><thead><tr><th>MAX</th><th>TYPICAL</th></tr></thead><tbody><tr><td>0.5</td><td>0.1</td></tr><tr><td>&lt;5 .0</td><td>unknown</td></tr></tbody></table>	MAX	TYPICAL	0.5	0.1	<5 .0	unknown
MAX	TYPICAL						
0.5	0.1						
<5 .0	unknown						
PARTICULATE INLET LOADING (GRAINS/SCF):							
b) MEAN PARTICLE DIAMETER (MICRONS):							

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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WED00000920

9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	10,000	10,000
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):	70	70
EFFICIENCY (PM REDUCTION):	(%) 99	(%) 99
EFFICIENCY (PM10 REDUCTION):	(%) 99	(%) 99

10) HOW IS FILTER MONITORED  
FOR INDICATIONS OF  
DETERIORATION  
(E.G., BROKEN BAGS)?

☐ CONTINUOUS  
OPACITY

☒ PRESSURE  
DROP

☐ ALARMS-AUDIBLE  
TO PROCESS  
OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: \_\_\_\_\_

☐ OTHER, SPECIFY: \_\_\_\_\_

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

Magnahelic pressure drop monitors will be installed at the baghouse and will be read on a weekly basis.

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

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